



e interval
A TRAIT: < 13.0 ANEMIA: >13.0
A TRAIT:<= 65.0 NEMIA: > 65.0
INCIVIA: 2 00.0

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. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJAN KUMAR AGE/ GENDER : 40 YRS/MALE **PATIENT ID** :1585203 **COLLECTED BY** :012408200024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 20/Aug/2024 09:05 AM **BARCODE NO.** :01515352 **COLLECTION DATE** : 20/Aug/2024 09:11AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 20/Aug/2024 09:41AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 31 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 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 4164 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 2151 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 208 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 416 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. 279000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.32 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 11 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 98000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 35 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.9 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra MD (Pathology & Microbiology)



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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJAN KUMAR			
AGE/ GENDER	: 40 YRS/MALE	PATIEN	IT ID	: 1585203
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REFERRED BY	:	REGIST	RATION DATE	: 20/Aug/2024 09:05 AM
BARCODE NO.	: 01515352	COLLEC	TION DATE	: 20/Aug/2024 09:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 20/Aug/2024 03:29PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	YCOSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAEM		10.1 ^H	%	4.0 - 6.4
WHOLE BLOOD				
by HPLC (HIGH PERFORI		243.17 ^H	mg/dL	60.00 - 140.00
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	243.17 ^H ETES ASSOCIATION (ADA):	mg/dL	60.00 - 140.00
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP	ETES ASSOCIATION (ADA):	MOGLOGIB (HBAIC) i	
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	ETES ASSOCIATION (ADA): GLYCOSYLATED HE	MOGLOGIB (HBAIC) i <5.7	
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HE 5	MOGLOGIB (HBAIC) i <5.7 .7 – 6.4	
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	ETES ASSOCIATION (ADA): GLYCOSYLATED HE 5	MOGLOGIB (HBAIC) i <5.7 .7 – 6.4 >= 6.5	
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HE 5 Age	MOGLOGIB (HBAIC) i <5.7 .7 – 6.4 >= 6.5 > 19 Years	n %
ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F Dia	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HE 5 Age Goals of Therapy:	MOGLOGIB (HBAIC) i <5.7 .7 – 6.4 >= 6.5 > 19 Years	n %
ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA): GLYCOSYLATED HE 5 Age Goals of Therapy: Actions Suggested:	MOGLOGIB (HBAIC) i <5.7 .7 – 6.4 >= 6.5 > 19 Years	n %

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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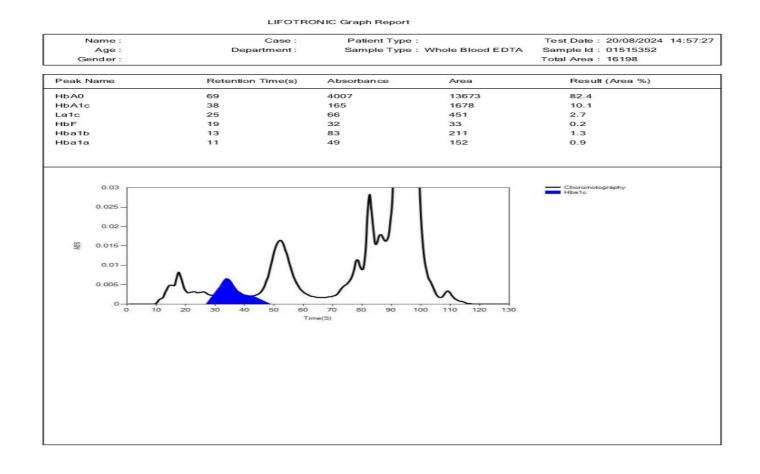


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	Dr. Vinay Chopra MD (Pathology & Microbic Chairman & Consultant Pa		(Pathology)
NAME	: Mr. RAJAN KUMAR		
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Test Name	Va	lue Unit	Biological Reference interval





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		Chopra gy & Microbiology) Consultant Pathologis		(Pathology)
NAME	: Mr. RAJAN KUMAR			
AGE/ GENDER	: 40 YRS/MALE		PATIENT ID	: 1585203
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BARCODE NO.	: 01515352		COLLECTION DATE	: 20/Aug/2024 09:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Aug/2024 10:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
	FR	THROCYTE SEDI	MENTATION RATE (ES	R)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOW A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha 6. Drugs such as dext	does not tell the health pract cted by other conditions besi be used to monitor disease a ematosus W ESR n with conditions that inhibit ificantly high white blood ce e cell anaemia) also lower th e protein (C-RP) are both mar s not change as rapidly as do by as many other factors as is ed, it is typically a result of tw ve a higher ESR, and menstru	titioner exactly when des inflammation. F ctivity and response the normal sedimer Il count (leucocytosi ne ESR. kers of inflammation es CRP, either at the s ESR, making it a be vo types of proteins ation and prognancy	re the inflammation is in th or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a tter marker of inflammatio , globulins or fibrinogen. , can cause temporary eleva	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count irmalities. Some changes in red cell shape (such s it resolves. n.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	RTING DATE	: 20/Aug/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/ GLUCOSE FAST		
	F): PLASMA	157.43 ^H	mg/dL	NORMAL: < 100.0
GLUCOSE FASTING (137.43	J. I	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
GLUCOSE FASTING (by GLUCOSE OXIDAS	E - PEROXIDASE (GOD-POD)			DIADETTO: > OK = 120.0
by GLUCOSE OXIDAS				Diribento. / OK = 120.0
by GLUCOSE OXIDAS <u>NTERPRETATION</u> N ACCORDANCE WIT . A fasting plasma g	H AMERICAN DIABETES ASSOCIAT	considered normal.		
by GLUCOSE OXIDAS <u>NTERPRETATION</u> N ACCORDANCE WIT . A fasting plasma g . A fasting plasma g est (after consumpt	H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is lucose level between 100 - 125 r ion of 75 gms of glucose) is recor	considered normal. mg/dl is considered as glu nmended for all such pat	ients.	rediabetic. A fasting and post-prandial blood t post-prandial is strongly recommended for a





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		h opra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO.	: Mr. RAJAN KUMAR : 40 YRS/MALE : : : 01515352	REG	FIENT ID G. NO./LAB NO. GISTRATION DATE LLECTION DATE	: 1585203 : 012408200024 : 20/Aug/2024 09:05 AM : 20/Aug/2024 09:11AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD		PORTING DATE	: 20/Aug/2024 11:47AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		198.77	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSPI	UM HATE OXIDASE (ENZYMATIC)	122.49	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		54.25	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		120.02	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 CHOLESTEL by CALCULATED, SPE		144.52 ^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		24.5	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Л	520.03	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPEC	RATIO: SERUM	3.66	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		2.21	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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NAME	: Mr. RAJAN KUMAR			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.26 ^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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Unit

Dr. Yugam Chopra MD (Pathology)

:1585203

:012408200024

: 20/Aug/2024 09:05 AM

: 20/Aug/2024 09:11AM

: 20/Aug/2024 11:47AM

Biological Reference interval

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. RAJAN KUMAR AGE/ GENDER : 40 YRS/MALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01515352 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 6349/1, NICHOLSON ROAD, AMBALA CANTT **CLIENT ADDRESS** Value

LIVE	ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.32	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	0.18	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	19.75	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	51.34 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.38	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	59.08	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	48.75	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	6.61	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	4.54	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.07 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.19 ^H	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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NAME

Test Name

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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).

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



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJAN KUMAR AGE/ GENDER : 40 YRS/MALE **PATIENT ID** :1585203 **COLLECTED BY** :012408200024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 20/Aug/2024 09:05 AM **BARCODE NO.** :01515352 **COLLECTION DATE** : 20/Aug/2024 09:11AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 20/Aug/2024 11:47AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval KIDNEY FUNCTION TEST (COMPLETE) UREA: SERUM** 19.98 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE: SERUM** 0.55 mg/dL 0.40 - 1.40 by ENZYMATIC, SPECTROPHOTOMETERY 9.34 BLOOD UREA NITROGEN (BUN): SERUM mg/dL 7.0 - 25.0 by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE 16.98 RATIO 10.0 - 20.0 RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY RATIO **UREA/CREATININE RATIO: SERUM** 36.33 by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM 3.64 3.60 - 7.70 mg/dL by URICASE - OXIDASE PEROXIDASE 9.99 CALCIUM: SERUM mg/dL 8.50 - 10.60 by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM 3.66 mg/dL 2.30 - 4.70 by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY **ELECTROLYTES** SODIUM: SERUM 142.5 mmol/L 135.0 - 150.0 by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM 4.31 mmol/L 3.50 - 5.00 by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM 106.88 mmol/L 90.0 - 110.0 by ISE (ION SELECTIVE ELECTRODE) **ESTIMATED GLOMERULAR FILTERATION RATE** ESTIMATED GLOMERULAR FILTERATION RATE 128.5

(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.

2. Catabolic states with increased tissue breakdown.



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			am Chopra 1D (Pathology) ant Pathologist
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Test Name		Value Unit	Biological Reference interval
		Value Ullit	biological Reference litter val
DECREASED RATIO (<	superimposed on renal disease 10:1) WITH DECREASED BUN :	more than creatinine) (e.g. obstructive urc e.	
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 3. Pregnancy.	superimposed on renal disease 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. furea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic hard	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea.	
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 of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in	superimposed on renal disease 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine difformonemias (urea is virtually absorb inappropiate antidiuretic hard 10:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio).	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine).	ologies,resulting in normal ratio when dehydra
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 of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thei	superimposed on renal disease 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually absorb inappropiate antidiuretic hard 10:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). rapy (interferes with creatinine	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine).	
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 NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera 5. CKD STAGE	superimposed on renal disease (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually absor- finappropiate antidiuretic hard by (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine). increase in creatinine with certain method measurement). GFR (mL/min/1.73m2)	ologies,resulting in normal ratio when dehydra
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 NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1	superimposed on renal disease (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually absort inappropiate antidiuretic hard py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION Normal kidney fun	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine). increase in creatinine with certain method measurement). <u>GFR (mL/min/1.73m2)</u> >90	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria
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 NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera 5. CKD STAGE	superimposed on renal disease (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually absor- finappropiate antidiuretic hard py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine) UNCREASED CREATION LAR FILTERATION RATE: DESCRIPTION Normal kidney fun Kidney damage w	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine). increase in creatinine with certain method measurement). <u>GFR (mL/min/1.73m2)</u> nction >90 with >90	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria Presence of Protein ,
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 NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1	superimposed on renal disease (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually absort inappropiate antidiuretic hard py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION Normal kidney fun	e. ffuses out of extracellular fluid). sent in blood). mone) due to tubular secretion of urea. IINE: creatine to creatinine). increase in creatinine with certain method measurement). I GFR (mL/min/1.73m2) action >90 with >90 GFR / /	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria

Moderate decrease in GFR
Severe decrease in GFR
Kidney failure

30-59

15-29

<15

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G3b

G4

G5



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			/
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, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	DFILE	
IRON: SERUM		62.2	μg/dL	59.0 - 158.0
by FERROZINE, SPECT		0/0 70		
UNSATURATED IRON :SERUM	I BINDING CAPACITY (UIBC)	263.73	μg/dL	150.0 - 336.0
by FERROZINE, SPEC	TROPHOTOMETERY			
TOTAL IRON BINDING	G CAPACITY (TIBC)	325.93	μg/dL	230 - 430
:SERUM by spectrophotom	ETEDY			
%TRANSFERRIN SATI		19.08	%	15.0 - 50.0
	CTROPHOTOMETERY (FERENE)			
TRANSFERRIN: SERU		231.41	mg/dL	200.0 - 350.0
by SPECTROPHOTOM. INTERPRETATION:-	EIEKY (FERENE)			

IN	ITE	ERF	<u>re</u>	<u>TA1</u>	<u>101</u>	<u>l:-</u>

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 Name		Value	Unit	Biological Reference interval
		FERRITI	N	
FERRITIN: SERUM		175.01	ng/mL	21.81 - 274.66

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

INTERPRETATION:

Serum ferritin appears to be in equilibrium with tissue ferritin and is a good indicator of storage iron in normal subjects and in most disorders. In patients with some hepatocellular diseases, malignancies and inflammatory diseases, serum ferritin is a disproportionately high estimate of storage iron because serum ferritin is an acute phase reactant. In such disorders iron deficiency anemia may exist with a normal serum ferritin concentration. In the presence of inflammation, persons with low serum ferritin are likely to respond to iron therapy.

DECREASED:

1. Iron depletion appears to be the only condition associated with reduced serum ferritin concentrations.

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- 2. Hypothyroidism.
 3. Vitamin-C deficiency

INCREASED FERRITIN DUE TO IRON OVERLOAD (PRIMARY):

1. Hemochromatosis or hemosiderosis.

2. Wilson Disease.

INCREASED FERRITIN DUE TO IRON OVERLOAD (SECONDARY):

- 1. Transfusion overload
- 2. Excess dietary Iron
- 3. Porphyria Cutanea tada
- 4. Ineffective erythropoiesis

INCREASED FERRITIN WITHOUT IRON OVERLOAD:

- 1. Liver disorders (NASH) or viral hepatitis (B/C)
- 2. Inflammatory conditions (Ferritin is a acute phase reactant) both acute and chronic.
- 3. Leukaemia, hodgkin's disease.
- 4. Alcohol excess.

5. Other malignancies in which increases probably reflect the escape of ferritin from damaged liver cells, impaired clearance from the plasma, synthesis of ferritin by tumour cells.

6. Ferritin levels below 10 ng/ml have been reported as indicative of iron deficiency anemia.

NOTE:

1. As Ferritin is an acute phase reactant, it is often raised in both acute and chronic inflammatory condition of the body such as infections leading to false positive results. It can thererfore mask a diagnostically low result. In such Cases serum ferritin levels should always be correlated with C-Reactive

proteins to rule out any inflammatory conditions. 2. Patients with iron deficiency anaemia may occasionally have elevated or normal ferritin levels. This is usually seen in patients already receiving iron therapy or in patients with concomitant hepatocellular injury.



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Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	IYROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONIN		1.046	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	IESCENT MICROPARTICLE IMMUNOASS RUM IESCENT MICROPARTICLE IMMUNOASS	7.24	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :			µIU/mL	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of th
day has influence on the trilodothyronine (T3).Fai		stimulates the p	roduction and secretion of the m	etabolically active hormones, thyroxine (T4)and

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CLINICAL CONDITION TSH T3 T4 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.

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name	Valu	e Unit	Biological Reference interval

Test Name			Value	Unit		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 PREGN	IANCY (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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KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. RAJAN KUMAR : 40 YRS/MALE : : : 01515352 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REG. I REGIS COLLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1585203 : 012408200024 : 20/Aug/2024 09:05 AM : 20/Aug/2024 09:11AM : 20/Aug/2024 02:09PM
Test Name		Value	Unit	Biological Reference interval
	IN	IMUNOPATHOLOG		
INTERPRETATION: COMMENTS: 1.1gE antibodies medies exposure to allergens 2.Total IgE is represer group amongst them. 3.Total IgE determinal existence of atopy and 4.Antigen-specific IgE is available for in vitro di 5.In adults, Total IgE vid different allergen or of 6.Specific IgE results of 7.The probability of fi allergens to which the 8.A normal level of Ig allergens and limited INCREASED: 1.Atopic/Non Atopic A 2.Parasitic Infection. 3.IgE Myeloma 4.Allergic bronchopu 5.The rare hyper IgE s 6.Immunodeficiency S USES: 1.Evaluation of childr 2.Evaluation of childr 3.To confirm clinical ed disease 4.To evaluate sensitive equivocal	ate allergic diseases by sensitized into the sum of all the specific lg tion constitutes a screening me d high values of total lgE are no is the next step in the in vitro idea agnostic tests and testing to be alues between 100 to 1000 UI/m ften the cause for high lgE could obtained with the different met nding an increased level of lgE e patient is sensitized. E in serum does not eliminate t end organ involvement. Allergy Imonary aspergillosis. yndrome. itates and Autoimmune states en with strong family history o en and adults suspected of hav expression of sensitivity to food	E, which inturn includes thod of atopic diseases, a t pathognomonic of atopin infication of the responsi selected based on sympto I may not correlate with a be non-atopic. hods vary significantly, he in serum in a patient with he possibility of allergic of the possibility of allergic of allergic respiratory d is in patients with Anaph particularly as an aid in de	many groups of spe although within rang y by themselves. ble allergen. There ar ms, clinical & enviror llergen specific IgE, v ence followup testin h allergic disease va disease; this occurs cal signs of disease isease to establish t ylactic sensitivity or efining venom speci	where the patients may be just sensitized to ng to be performed using one laboratory only. ries directly with the number of different if there is sensitivity to a limited number of

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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra y & Microbiology) Consultant Pathologis		(Pathology)
NAME	: Mr. RAJAN KUMAR			
AGE/ GENDER	: 40 YRS/MALE		PATIENT ID	: 1585203
COLLECTED BY	:		REG. NO./LAB NO.	: 012408200024
REFERRED BY			REGISTRATION DATE	: 20/Aug/2024 09:05 AM
BARCODE NO.	: 01515352		COLLECTION DATE	: 20/Aug/2024 09:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Aug/2024 13:11AM
				: 20/Aug/2024 12.23PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT I		
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
		/ITAMIN D/25 H	YDROXY VITAMIN D3	
by CLIA (CHEMILUMIN	OXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	10.2 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:	IENIT.	< 20		a /ml
DEFIC INSUFF		< 20 21 - 29		ŋ/mL ŋ/mL
PREFFERE		30 - 100		g/mL
conversion of 7- dihyc 2.25-OHVitamin D re- issue and tightly bou 3. Vitamin D plays a pro- ohosphate reabsorpti- 4. Severe deficiency m DECREASED: 1. Lack of sunshine exc 2. Inadequate intake, 1 3. Depressed Hepatic N 4. Secondary to advance 5. Enzyme Inducing dru NCREASED: 1. Hypervitaminosis D evere hypercalcemia 2. AUTION: Replacemen hypervitaminosis D	Arocholecalciferol to Vitamin epresents the main body rese nd by a transport protein wh imary role in the maintenan on, skeletal calcium depositi- ay lead to failure to minerali posure. malabsorption (celiac disease /itamin D 25- hydroxylase ac ced Liver disease econdary Hyperparathroidisn ugs: anti-epileptic drugs like is Rare, and is seen only after and hyperphophatemia. ht therapy in deficient indivice maividuals as compare to whit	D3 in the skin upor voir and transport f ille in circulation. ce of calcium home on, calcium mobiliza ze newly formed os e) tivity n (Mild to Moderate ohenytoin, phenoba er prolonged exposu uals must be monit	n Ultraviolet exposure. orm of Vitamin D and transp ostatis. It promotes calcium ation, mainly regulated by p teoid in bone, resulting in r e deficiency) arbital and carbamazepine, r ire to extremely high doses ored by periodic assessmen	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and barathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>





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

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Dr. Vinay Chc MD (Pathology & Chairman & Cons			Dr. Yugan MD CEO & Consultant	(Pathology)		
NAME	: Mr. RAJAN KUMAR					
AGE/ GENDER	: 40 YRS/MALE	PATI	ENT ID	: 1585203		
COLLECTED BY	:	REG.	NO./LAB NO.	: 012408200024		
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BARCODE NO.	: 01515352	COLI	ECTION DATE			
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD					
Test Name		Value	Unit	Biological Reference interval		
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	ALAMIN: SERUM	VITAMIN B12/CO 150 ^L	pg/mL	190.0 - 890.0		
	SED VITAMIN B12		DECREASED VITAMIN B12			
1.Ingestion of Vitan		1.Pregnancy				
2.Ingestion of Estro	5		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitan 4.Hepatocellular in			3.Ethanol Igestion 4. Contraceptive Harmones			
5.Myeloproliferative disorder			5.Haemodialysis			
6.Uremia		6. Multiple My	6. Multiple Myeloma			
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié ileal resection, smal	ency may be due to lack of IF se I intestinal diseases).	ns and requires intrinsic ically, reabsorbing vitam cretion by gastric mucos	factor (IF) for absorp in B12 from the ileun a (eg, gastrectomy, g	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e weakness, hyperreflexia, ataxia, loss of		

the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

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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	Dr. Vinay ChopraDr. YuganMD (Pathology & Microbiology)MDChairman & Consultant PathologistCEO & Consultant		(Pathology)				
NAME	: Mr. RAJAN KUMAR						
AGE/ GENDER	: 40 YRS/MALE	PAT	FIENT ID	: 1585203			
COLLECTED BY	:	REG	G. NO./LAB NO.	: 012408200024			
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BARCODE NO.	: 01515352	COL	LLECTION DATE	: 20/Aug/2024 09:11AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 20/Aug/2024 12:23PM			
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT							
Test Name		Value	Unit	Biological Reference interval			
PROSTATE SPECIFIC A	PROSTAT ANTIGEN (PSA) - TOTAL:	TUMOUR N E SPECIFIC AN 0.53	MARKER TIGEN (PSA) - TOTA ng/mL	AL 0.0 - 4.0			
	ESCENCE IMMUNOASSAY)						
Expected Values for							
2.Normally, very little	<pre>< 4 ng/ml </pre> < 4 ng/ml tigen (PSA) is a glycoprotein that is p PSA is secreted in the blood.	produced by the p	prostate gland, the lining	g of the urethra, and the bulbourethral gland.			
2.Prostatitis. 3.Prostate cancer mag	lar size and tissue damage caused b y increase circulating PSA levels. viously diagnosed prostate cance,P			ator of tumor recurrence and as an indicator o	of		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

The test is also useful for initial screening for prostate cancer:-

1.Total PSA levels < 2 ng/ml almost rule out the possibility of prostatic malignancy.

2. Total PSA levels between 2 and 10 ng/ml lie in the grey zone. Such values may be obtained in prostatitis, benign hyperplasia and malignancy. Further testing including a free PSA/PSA ratio and prostate biopsy is recommended for these patients for confirmation of the diagnosis. 3. Total PSA values >10 ng/ml are highly suspicious for prostate cancer but further testing, such as prostate biopsy, is needed to diagnose the exact pathology.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 20/Aug/2024 09:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE RO	OUTINE & MICROSCOP		ΓΙΟΝ
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVE			ml	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
COLOUR		PALE YELLOW		PALE YELLOW
TRANSPARANCY	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			CLEAR
-				
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION				
-	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
PROTEIN	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)
				50.75
		5.5		5.0 - 7.5
BILIRUBIN				NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Negative		
		Negative		NEGATIVE (-ve)
UROBILINOGEN	UROBILINOGEN		EU/dL	0.2 - 1.0
KETONE BODIES	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID			NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)		· · /

MICROSCOPIC EXAMINATION



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



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

NAME	: Mr. RAJAN KUMAR				
AGE/ GENDER	: 40 YRS/MALE	PATIEN	ГID	: 1585203	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
EPITHELIAL CELLS		1-2	/HPF	ABSENT	

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT	

End Of Report



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