PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. KANISH BANSAL				
AGE/ GENDER	: 35 YRS/MALE	P	ATIENT ID	: 1649101	
COLLECTED BY	:	F	EG. NO./LAB NO.	: 12241021002	21
REFERRED BY	:	F	REGISTRATION DATE	: 21/Oct/2024 02	2:01 PM
BARCODE NO.	: 12505277	C	COLLECTION DATE	: 21/Oct/2024 02	2:01PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ITE R	REPORTING DATE	: 21/Oct/2024 04	1:50PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - HAR	YANA		
Test Name		Value	Unit	Biologi	cal Reference interval
	SWAS	THYA WEL	LNESS PANEL: 1.5		
	COM	IPLETE BLO	OD COUNT (CBC)		
<u>RED BLOOD CELLS (F</u>	RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB		13.3	gm/dL	12.0 - 1	7.0
RED BLOOD CELL (RE	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.25 ^H	Millions/c	mm 3.50 - 5	.00
PACKED CELL VOLUN		38.8 ^L	%	40.0 - 5	4.0
MEAN CORPUSCULA		73.9 ^L	KR fl	80.0 - 1	00.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by calculated by automated hematology analyzer		25.4 ^L	pg	27.0 - 3	4.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	34.4	g/dL	32.0 - 3	6.0
	TON WIDTH (RDW-CV)	16.8 ^H	%	11.00 -	16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.5	fL	35.0 - 5	6.0
MENTZERS INDEX by CALCULATED		14.08	RATIO		HALASSEMIA TRAIT: < 13 EFICIENCY ANEMIA: >13.
GREEN & KING INDE by calculated	Х	23.71	RATIO		HALASSEMIA TRAIT:<= 65 EFICIENCY ANEMIA: > 65
WHITE BLOOD CELL	<u>S (WBCS)</u>				
	OUNT (TLC) Y by sf cube & microscopy	11310 ^H	/cmm	4000 - 1	11000
NUCLEATED RED BLO		NIL		0.00 - 2	0.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZER</i>	NIL	%	< 10 %	
NEUTROPHILS		64	%	50 - 70	



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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• Mr. KANISH BANSAL

NAME

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: 12505277		COLLECTION DATE	: 21/Oct/2024 02:01PM	
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: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HA	ARYANA		
	Value	Unit	Biological Reference interval	
		%	20 - 40	
BY SF CUBE & MICROSCOPY				
A BY SE CURE & MICROSCORY	3	%	1 - 6	
BT SF CODE & MICKUSCOPT	4	%	2 - 12	
Y BY SF CUBE & MICROSCOPY				
A BY SE CURE & MICROSCORY	0	%	0 - 1	
	7238	/cmm	2000 - 7500	
BY SF CUBE & MICROSCOPY				
	3280 ^L	/cmm	800 - 4900	
	339	/cmm	40 - 440	
	452	/cmm	80 - 880	
	0	/cmm	0 - 110	
	Ŭ	/ Grinn	0 110	
IER PLATELET PREDICTIVE MARKE	<u>RS.</u>			
	286000	/cmm	150000 - 450000	
OCUSING, ELECTRICAL IMPEDENCE	0.25	0/	0.10 - 0.36	
OCUSING, ELECTRICAL IMPEDENCE	0.20	/0	0.10-0.30	
LUME (MPV)	9	fL	6.50 - 12.0	
	E/000	10000	20000 00000	
	56000	/cmm	30000 - 90000	
L RATIO (P-LCR)	19.6	%	11.0 - 45.0	
	45.0	<u>.</u>		
	15.8	%	15.0 - 17.0	
	: 35 YRS/MALE : : : 12505277 : P.K.R JAIN HEALTHCARE INSTIT : NASIRPUR, HISSAR ROAD, AMB/ / BY SF CUBE & MICROSCOPY / BY SF CUBE & MICROSCOPY PHIL COUNT / BY SF CUBE & MICROSCOPY HIL COUNT / BY SF CUBE & MICROSCOPY HIL COUNT / BY SF CUBE & MICROSCOPY HIL COUNT / BY SF CUBE & MICROSCOPY TE COUNT / BY SF CUBE & MICROSCOPY COUNT / BY SF CUBE & MICROSCOPY - COUNT / BY SF CUBE & MICROSCOPY	: 35 YRS/MALE : : : : : : : : : : : : :	: 35 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 12505277 COLLECTION DATE : 1250527 COLLECTION DATE : 1250527 COLLECTION DATE : 1250520 COLL	



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE REPORTING	DATE	: 21/Oct/2024 05:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
ESTIMATED AVERAG	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	154.2 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCIATION (ADA):		
	REFERENCE GROUP	GLYCOSYLATED	HEMOGLOGIB	(HBAIC) in %
Non dia	abetic Adults >= 18 years	DKD	<5.7	
A	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			ge > 19 Years	
Therapeutic goals for glycemic control		Goals of Therapy:		< 7.0
rnerapeut	ic goals for glycemic control	Actions Suggested:	ge < 19 Years	< 7.0 >8.0

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 HbAIc. Converse is true for a diabetic previously under good control but now poorly controlled.

Goal of therapy:

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 appropiate.

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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Test Name	Value	Unit	Biological Reference interval
FRYTHROCYTE SEDI	MENTATION RATE (ESR) 28 ^H	mm/1st h	r 0-20
	GATION BY CAPILLARY PHOTOMETRY		0 20
INTERPRETATION:	SATION BI CALLERATION OF METRY		
	ic test because an elevated result often indic	ates the presence of inflammatic	on associated with infection cancer and auto
immune disease, but	does not tell the health practitioner exactly	where the inflammation is in the	body or what is causing it.
2. An ESR can be affe	does not tell the health practitioner exactly v cted by other conditions besides inflammatic	on. For this reason, the ESR is typ	ically used in conjunction with other test su
as C-reactive protein			
3. This test may also systemic lupus erythe	be used to monitor disease activity and response	onse to therapy in both of the ab	ove diseases as well as some others, such a
CONDITION WITH LOV			
A low ESR can be see	n with conditions that inhibit the normal sed	imentation of red blood cells, su	ch as a high red blood cell count
(polycythaemia), sigr	ificantly high white blood cell count (leucocy	ytosis), and some protein abnor	malities. Šome changes in red cell shape (su
as sickle cells in sickl	e cell anaemia) also lower the ESR.		
	e protein (C-RP) are both markers of inflamm	ation	

 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment of a structure of the start of aspirin, cortisone, and quinine may decrease it



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTI



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: NASIRPUR, HISSAR ROAD, AM	MBALA CITY - HARYAN	A	
	Value	Unit	Biological Reference interval
CLIN			Y
): PLASMA = - peroxidase (god-pod)	103.44 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0
	: 35 YRS/MALE : : : 12505277 : P.K.R JAIN HEALTHCARE INS : NASIRPUR, HISSAR ROAD, AN CLIN	: 35 YRS/MALE PATT : REG. : REG. : 12505277 COLI : P.K.R JAIN HEALTHCARE INSTITUTE REPO : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYAN Value CLINICAL CHEMISTRY GLUCOSE FAS): PLASMA 103.44 ^H	: 35 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 12505277 COLLECTION DATE : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)): PLASMA 103.44 ^H mg/dL

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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CLIENT CODE.	ODE. : P.K.R JAIN HEALTHCARE INSTITUTE		REPORTING DATE	: 21/Oct/2024 04:52PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		201.27 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)		263.17 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (D by SELECTIVE INHIBITIC		34.02	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SE by CALCULATED, SPEC		114.62	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER by CALCULATED, SPEC		167.25 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		52.63 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SERUM by CALCULATED, SPEC		665.71	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	5.92 ^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: SERU by CALCULATED, SPEC		3.37 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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Test Name	Value	Unit	Biological Reference interval

TRIGLYCERIDES/HDL RATIO: SERUM RATIO 3.00 - 5.00 7.74^H 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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

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



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Test Name		Value	Unit	Biological Reference interval
	LIVE	R FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: SI by diazotization, sf	ERUM PECTROPHOTOMETRY	0.71	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.58	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	17.19	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	24.07		0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	UM	0.71	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		143.22 ^H	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	28.45	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO		6.76	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.2	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.56	gm/dL	2.30 - 3.50

by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

<u>INTERPRETATION</u> <u>NOTE:</u> 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)

1.64





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RATIO

1.00 - 2.00

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	Test Name	Value	Unit	Biological Reference interva
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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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Test Name		Value	Unit	Biological Reference interval	
	KIE	ONEY FUNCTI	ON TEST (COMPLETE)		
UREA: SERUM by urease - glutam	IATE DEHYDROGENASE (GLDH)	25.36	mg/dL	10.00 - 50.00	
CREATININE: SERUN by ENZYMATIC, SPEC	1	0.85	mg/dL	0.40 - 1.40	
BLOOD UREA NITRO by CALCULATED, SPE	CTROPHOTOMETRY	11.85	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE	13.94	RATIO	10.0 - 20.0	
UREA/CREATININE R by calculated, spe		29.84	RATIO		
URIC ACID: SERUM by URICASE - OXIDAS	E PEROXIDASE	6.1	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPE		10.5	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER by phosphomolybd ELECTROLYTES	UM DATE, SPECTROPHOTOMETRY	3.03	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	140.6	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM		4.54	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVI ESTIMATED GLOMEI	E ELECTRODE) RULAR FILTERATION RATE	105.45	mmol/L	90.0 - 110.0	
(eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	116.2			

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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REFERRED BY	:	REGISTRATION DATE	: 21/Oct/2024 02:01 PM
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Test Name	Value	Unit	Biological Reference interval

3. GI haemorrhage.

4. High protein intake.

5. Impaired renal function plus

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet,

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids)

INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

DECREASED RATIO (<10:1) WITH DECREASED BUN :

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
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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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. 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 eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill 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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Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	63.8	μg/dL	59.0 - 158.0
	N BINDING CAPACITY (UIBC)	229.23	ug/dl	150 0 - 336 0

by FERROZINE, SPECTROPHOTOMETRY			
UNSATURATED IRON BINDING CAPACITY (UIBC)	229.23	μg/dL	150.0 - 336.0
:SERUM			
by FERROZINE, SPECTROPHOTOMETERY			
TOTAL IRON BINDING CAPACITY (TIBC)	293.03	μg/dL	230 - 430
:SERUM			
by SPECTROPHOTOMETERY			
%TRANSFERRIN SATURATION: SERUM	21.77	%	15.0 - 50.0
by CALCULATED, SPECTROPHOTOMETERY (FERENE)			
TRANSFERRIN: SERUM	208.05	mg/dL	200.0 - 350.0
by SPECTROPHOTOMETERY (FERENE)			

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.

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for TOTAL IRON BINDING CAPACITY (TIBC): 1.1t 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		
		ENDOCRIN	OLOGY			
	THYR	OID FUNCTIO	N TEST: TOTAL			
TRIIODOTHYRONINE by CMIA (CHEMILUMIN		1.38	N TEST: TOTAL ng/mL	0.35 - 1.93		
by CMIA (CHEMILUMIN THYROXINE (T4): SEE	: (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	1.38 8.32		0.35 - 1.93 4.87 - 12.60		

INTERPRETATION:

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 triiodothyronine (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 (e.g.: phenytoin , salicylates).

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

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

TRIIODOTHY	(RONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING 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





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Test Name			Value	Unit		Biological Reference interval
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	
	RECON	IMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester



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	,	, -		
Test Name		Value	Unit	Biological Reference interval
		VII	AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
VITAMIN D (25-HYD	ROXY VITAMIN D3): SER	UM 53.5	ng/mL	DEFICIENCY: < 20.0
•	ESCENCE IMMUNOASSAY)		3	INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
INTERPRETATION:				
DEFI	CIENT:	< <mark>20</mark>	ng	ı/mL
	FICIENT:	21 - 29	ng	ı/mL
PREFFER	ED RANGE:	30 - 100	ng	ı/mL

INSUFFICIENT:	
PREFFERED RANGE:	

INTOXICATION: > 100 ng/mL 1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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Test Name		Value	Unit	Biological Reference interval
	LAMIN: SERUM	207.6	2/COBALAMIN pg/mL	200.0 - 1100.0
by CMIA (CHEMILUMIN INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNOAS	207.6	pg/mL	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA:	NESCENT MICROPARTICLE IMMUNOAS	207.6 SSAY)	pg/mL DECREASED VITAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro	NESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen	207.6 SSAY) 1.Pregnar 2.DRUGS	pg/mL DECREASED VITAMIN ncy Aspirin, Anti-convulsants,	B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen nin A	207.6 SSAY) 1.Pregnar 2.DRUGS 3.Ethanol	pg/mL DECREASED VITAMIN ncy Aspirin, Anti-convulsants, Egestion	B12
INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	NESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen nin A ijury	207.6 SSAY) 1.Pregnar 2.DRUGS 3.Ethanol 4. Contra	pg/mL DECREASED VITAMIN ncy Aspirin, Anti-convulsants, I lgestion_ ceptive Harmones_	B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen nin A ijury	207.6 SSAY) 1.Pregnat 2.DRUGS 3.Ethanol 4. Contra 5.Haemo	pg/mL DECREASED VITAMIN ncy Aspirin, Anti-convulsants, I lgestion_ ceptive Harmones_	B12

4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases).

5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have 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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Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
	URINE RC	DUTINE & MICROS		TION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVED) TANCE SPECTROPHOTOMETRY	30	ml	
COLOUR		PALE YELLOW		PALE YELLOW
-	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY		TURBID		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.02		1.002 1.000
CHEMICAL EXAMINA	ATION			
REACTION		ALKALINE		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
PROTEIN		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-VE)		NEGATIVE (-ve)
рН		7.5		5.0 - 7.5
•	TANCE SPECTROPHOTOMETRY			
BILIRUBIN		NEGATIVE (-ve)		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN		NOT DETECTED	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY			
KETONE BODIES	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
BLOOD		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAN	<u>/IINATION</u>			



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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval
L RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS				•
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS by MICROSCOPY ON (CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve) 8-10	/HPF /HPF	0 - 3 0 - 5
RED BLOOD CELLS (F by MICROSCOPY ON O PUS CELLS by MICROSCOPY ON O EPITHELIAL CELLS by MICROSCOPY ON O CRYSTALS by MICROSCOPY ON O CASTS	CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve) 8-10 10-12	/HPF /HPF	0 - 3 0 - 5 ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report

NEGATIVE (-ve)

ABSENT



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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**



NEGATIVE (-ve)

ABSENT