A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. ANU			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1413286
COLLECTED BY	:		REG. NO./LAB NO.	: 122408220011
REFERRED BY	:		REGISTRATION DATE	: 22/Aug/2024 10:16 AM
BARCODE NO.	: 12504250		COLLECTION DATE	: 22/Aug/2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	REPORTING DATE	: 22/Aug/2024 01:24PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.5	
	CON	/IPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		12.4	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB		4.15	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUN		35.8 ^L	%	37.0 - 50.0
MEAN CORPUSCULA		86.2	KR fl	80.0 - 100.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.9	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	34.6	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	12.9	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) utomated hematology analyzer	43.7	fL	35.0 - 56.0
MENTZERS INDEX		20.77	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDE by calculated		26.81	RATIO	BETA THALASSEMIA TRAIT:<= 65 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS				
	BY SF CUBE & MICROSCOPY	6060	/cmm	4000 - 11000
DIFFERENTIAL LEUCO	<u>JUYTE COUNT (DLC)</u>		<u>^</u>	50.70
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	65	%	50 - 70
LYMPHOCYTES	/ BY SF CUBE & MICROSCOPY	23	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	5	%	1 - 6

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



: Mrs. ANU

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Test Name		Value	Unit	Biological Reference interval
MONOCYTES		7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY			
BASOPHILS		0	%	0 - 1
•	Y BY SF CUBE & MICROSCOPY			
	YTES (WBC) COUNT			
ABSOLUTE NEUTRO		3939	/cmm	2000 - 7500
<i>by FLOW CYTOMETR</i> ABSOLUTE LYMPHO	Y BY SF CUBE & MICROSCOPY		lamor	800 - 4900
	Y BY SF CUBE & MICROSCOPY	1394 ^L	/cmm	800 - 4900
ABSOLUTE EOSINOF		303	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	000	/ Gillin	10 110
ABSOLUTE MONOC'		424	/cmm	80 - 880
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPH		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY			
	HER PLATELET PREDICTIVE MARKE			
PLATELET COUNT (P		229000	/cmm	150000 - 450000
-	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)		0.25	%	0.10 - 0.36
MEAN PLATELET VC	FOCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE		IL	0.50 - 12.0
PLATELET LARGE CE		75000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CE		32.9	%	11.0 - 45.0
-	FOCUSING, ELECTRICAL IMPEDENCE		<i></i>	
	TION WIDTH (PDW)	16.4	%	15.0 - 17.0
-	FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD			
NOTE: TEST CONDU	JUIED ON EDIA WHOLE BLOOD			





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	TUTE REPOR	TING DATE	: 22/Aug/2024 05:21PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
	GLYC	OSYLATED HAEMOO	LOBIN (HBA1C)	
GLYCOSYLATED HAEMOGLOBIN (HbA1c):		6.4	%	4.0 - 6.4
WHOLE BLOOD				
•	RMANCE LIQUID CHROMATOGRAPHY)	10/ 00		(0.00, 1.40.00)
ESTIMATED AVERAGE	E PLASIVIA GLUCUSE RMANCE LIQUID CHROMATOGRAPHY)	136.98	mg/dL	60.00 - 140.00
INTERPRETATION:				
		ABETES ASSOCIATION (A		
	REFERENCE GROUP		ATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	GETOGGTE	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
	iagnosing Diabetes		>= 6.5	
	5 5		Age > 19 Years	
		Goals of Ther	ару:	< 7.0
Therapeut	ic goals for glycemic control	Actions Sugges		>8.0
			Age < 19 Years	
		Goal of thera	py:	<7.5

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE	REPORTING DATE	: 22/Aug/2024 03:45PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDI	VIENTATION RATE (ES	R)
by MODIFIED WESTE INTERPRETATION: 1. ESR is a non-specif	MENTATION RATE (ESR) RGREN AUTOMATED METHOD fic test because an elevated resul	35 ^H It often indicates	mm/1st h	ion associated with infection, cancer and aut
2. An ESR can be affe as C-reactive protein		oner exactly where inflammation. Fo	e the inflammation is in the or this reason, the ESR is typ	e body or what is causing it. pically used in conjunction with other test suc

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

CONDITION WITH LOW ESR

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:

1. ESR and C - reactive protein (C-RP) are both markers of inflammation.

2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

 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 explicit contraceptives are the process. aspirin, cortisone, and quinine may decrease it



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AI	MBALA CITY - HARYAN	JA	
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	
GLUCOSE FASTING (I by GLUCOSE OXIDAS	F): PLASMA e - peroxidase (god-pod)	101.78 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
INTERPRETATION				
	H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is (

A fasting plasma glucose level below 100 mg/di 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. : P.I	K.R JAIN HEALTHCARE I	NSTITUTE	REPORTING DATE	: 22/Aug/2024 01:24PM
CLIENT ADDRESS : NA	ASIRPUR, HISSAR ROAD,	AMBALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL: SEF	RUM	181.49	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE	PAP			BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERUM		159.73 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE	OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRE	CT): SERLIM	56.33	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION		P	KR IIIg/ dE	BORDERLINE HIGH HDL: 30.0 -
				60.0
				HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUN by CALCULATED, SPECTRO		93.21	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0
by GALOULATED, OF LOTING	I HOTOMETICI			BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL:		125.16	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTRO	PHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERU	JM	31.95	mg/dL	0.00 - 45.00
by CALCULATED, SPECTRO	PHOTOMETRY	F00 71	ne e /ell	
TOTAL LIPIDS: SERUM by CALCULATED, SPECTRO	PHOTOMETRY	522.71	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO		3.22	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTRO	PHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0
LDL/HDL RATIO: SERUM		1 45	σλτιο	HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0
by CALCULATED, SPECTRO	PHOTOMETRY	1.65	RATIO	MODERATE RISK: 3.10 - 6.0
-				HIGH RISK: > 6.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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Test Name	Value	Unit	Biological Reference interval		

Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL RATIO: SERUM	2.84 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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 interva			
	LIV	ER FUNCTIO	ON TEST (COMPLETE)				
BILIRUBIN TOTAL: SE by diazotization, sp		0.46	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20			
	ONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40			
BILIRUBIN INDIRECT	(UNCONJUGATED): SERUM <i>CTROPHOTOMETRY</i>	0.33	mg/dL	0.10 - 1.00			
SGOT/AST: SERUM		20.74	U/L	7.00 - 45.00			
by IFCC, WITHOUT PY SGPT/ALT: SERUM by IFCC, WITHOUT PY		21.63		0.00 - 49.00			
AST/ALT RATIO: SERU	JM	0.96	RATIO	0.00 - 46.00			
ALKALINE PHOSPHAT		96.47	U/L	40.0 - 130.0			
	TRANSFERASE (GGT): SERUM	23.98	U/L	0.00 - 55.0			
TOTAL PROTEINS: SE by BIURET, SPECTROF	RUM	7.22	gm/dL	6.20 - 8.00			
ALBUMIN: SERUM by BROMOCRESOL GF		4.32	gm/dL	3.50 - 5.50			
GLOBULIN: SERUM by CALCULATED, SPE	CTROPHOTOMETRY	2.9	gm/dL	2.30 - 3.50			
A : G RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY	1.49	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





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Test Name	Value	Unit	Biological Reference interval
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	

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	
	KID	NEY FUNCTION	ON TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	25.14	mg/dL	10.00 - 50.00	
CREATININE: SERUM		0.89	mg/dL	0.40 - 1.20	
BLOOD UREA NITRO	CTROPHOTOMETRY	11.75	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE	13.2	RATIO	10.0 - 20.0	
UREA/CREATININE R	ATIO: SERUM	28.25	RATIO		
URIC ACID: SERUM by URICASE - OXIDASI	E PEROXIDASE	4.84	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	9.17	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER by PHOSPHOMOLYBD ELECTROLYTES	UM ate, spectrophotometry	3.1	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	141.1	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.4	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ESTIMATED GLOMER	e electrode) RULAR FILTERATION RATE	105.82	mmol/L	90.0 - 110.0	
(eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	75.1			

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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NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. ANU		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1413286
COLLECTED BY	:	REG. NO./LAB NO.	: 122408220011
REFERRED BY	:	REGISTRATION DATE	: 22/Aug/2024 10:16 AM
BARCODE NO.	: 12504250	COLLECTION DATE	: 22/Aug/2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 22/Aug/2024 01:24PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	
Test Name	Value	Unit	Biological Reference interval
3. GI haemorrhage.			
4. High protein intake			
5. Impaired renal fur	1		
	ake or production or tissue breakdown (e.g. in	fection, GI bleeding, thyrotoxic	osis, Cushing's syndrome, high protein diet,
burns, surgery, cache	exia, nign rever). n (e.g. ureter colostomy)		
	r (e.y. urerer colosiony)		

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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interval
		IRON PRO) FII F	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	61.54	μg/dL	37.0 - 145.0
•	N BINDING CAPACITY (UIBC)	211.17	µg/dL	150.0 - 336.0
TOTAL IRON BINDIN		272.71	μg/dL	230 - 430

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

%

IRON DEFICIENCY ANEMIA

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

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 iron deficiency anemia, is severely contra-indicated in Thalassemia. 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.

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

22.57

193.62^L

% TRANSFERRIN SATURATION:

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

INTERPRETATION:

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

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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:SERUM

NOT VALID FOR MEDICO LEGAL PURPOSE



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Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	LOGY	
	THYR	ENDOCRINO OID FUNCTION		
		OID FUNCTION		0.35 - 1.93
THYROXINE (T4): SE	E (T3): SERUM <i>iescent microparticle immunoassay)</i> RUM	OID FUNCTION 1.32 9.16	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): SE by CMIA (CHEMILUMIN THYROID STIMULAT	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) RUM IESCENT MICROPARTICLE IMMUNOASSAY) ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	COID FUNCTION 1.32 9.16 4.93	TEST: TOTAL ng/mL	

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

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROXINE (T4) THYROID STIMULATING H		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		Biolog	ical 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 Li	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, 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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Test Name		Value	Unit	Biological Reference interval
	IN.			
	IIV	IMUNOPATHOLO C-REACTIVE PRO		
C-REACTIVE PROTEII SERUM by NEPHLOMETRY INTERPRETATION:	IN N (CRP) QUANTITATIVE:			0.0 - 6.0

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:**

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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CLIENT ADDRESS				: 22/Aug/2024 01:2	4PM
	: NASIRPUR, HISSAR ROAE), AMBALA CITY - HARY/	ANA		
Test Name					
		Value	Unit	Biological	Reference interval
		VITAN	/INS		
		VITAMIN D/25 HYDI	ROXY VITAMIN D3		
	DXY VITAMIN D3): SERUM scence immunoassay)	20.81 ^L	ng/mL		ENCY: 20.0 - 30.0 CY: 30.0 - 100.0
DEFICI	ENT:	< 20	na	ı/mL	
INSUFFIC	CIENT:	21 - 29			
PREFFERED INTOXIC		30 - 100	0	g/mL g/mL	
3. Vitamin D plays a pri phosphate reabsorptio 4. Severe deficiency ma DECREASED: 1. Lack of sunshine expo 2. Inadequate intake, m 3. Depressed Hepatic V 4. Secondary to advance 5. Osteoporosis and Sec 6. Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D i severe hypercalcemia a	halabsorption (celiac diseas Itamin D 25- hydroxylase ad	nce of calcium homeosta ion, calcium mobilization ize newly formed osteoi se) ctivity m (Mild to Moderate del phenytoin, phenobarbit er prolonged exposure t	n, mainly requlated by p d in bone, resulting in ri ficiency) al and carbamazepine, t o extremely high doses o	parathyroid harmone (F ickets in children and c that increases Vitamin of Vitamin D. When it c	PTH). Isteomalacia in adults. D metabolism. Doccurs, it can result in



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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Test Name		Value	Unit	Biological R	eference interval
		VITAMIN B12/	COBALAMIN		
	LAMIN: SERUM NESCENT MICROPARTICLE IMMUNO	VITAMIN B12/ 753.7 ASSAY)	COBALAMIN pg/mL	200.0 - 1100).0
by CMIA (CHEMILUMIN INTERPRETATION:-		753.7).0]
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C	753.7 ASSAY)	pg/mL DECREASED VITAMIN	B12	0.0
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	VESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen	753.7 ASSAY) 1.Pregnanc 2.DRUGS:AS	pg/mL DECREASED VITAMIN / spirin, Anti-convulsants,	B12	0.0
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A	753.7 ASSAY) 1.Pregnanc 2.DRUGS:As 3.Ethanol Ig	pg/mL DECREASED VITAMIN / spirin, Anti-convulsants, jestion	B12	0.0
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A jury	753.7 ASSAY) 1.Pregnanc 2.DRUGS:As 3.Ethanol Ig	pg/mL DECREASED VITAMIN / spirin, Anti-convulsants, jestion_ ptive Harmones_	B12	D.O

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 interva	
		CLINICAL P	ATHOLOGY		
	URINE RC	OUTINE & MICR	OSCOPIC EXAMINAT	ION	
PHYSICAL EXAMINA	TION				
QUANTITY RECIEVED		30	ml		
	TANCE SPECTROPHOTOMETRY				
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOV	V	PALE YELLOW	
TRANSPARANCY		CLEAR		CLEAR	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1 ^L		1.002 - 1.030	
CHEMICAL EXAMINA					
REACTION		ACIDIC			
	TANCE SPECTROPHOTOMETRY				
PROTEIN		NEGATIVE (-	ve)	NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-)		NEGATIVE (-VE)	
рН		6		5.0 - 7.5	
•	TANCE SPECTROPHOTOMETRY				
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-)	ve)	NEGATIVE (-ve)	
NITRITE		NEGATIVE (-v	ve)	NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.				
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NOT DETECT	ED EU/dL	0.2 - 1.0	
		NEGATIVE (-\		NEGATIVE (-ve)	
		NEGATIVE (-	ve)	NEGATIVE (-ve)	
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-ve)	
•	<u>IINATION</u>				

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RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA		NEGATIVE (-ve)		NEGATIVE (-ve)	

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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NEGATIVE (-ve)

ABSENT