A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SUNITA RANI			
AGE/ GENDER	: 52 YRS/FEMALE		PATIENT ID	: 1587593
COLLECTED BY	:		REG. NO./LAB NO.	: 122408220020
REFERRED BY	:		REGISTRATION DATE	: 22/Aug/2024 11:33 AM
BARCODE NO.	: 12504259		COLLECTION DATE	: 22/Aug/2024 03:32PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE	REPORTING DATE	: 22/Aug/2024 01:31PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	ELLNESS PANEL: 1.5	
	COL		LOOD COUNT (CBC)	
<u>RED BLOOD CELLS (R</u>	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by calorimetric		12.1	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT DCUSING, ELECTRICAL IMPEDENCE	3.98	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUM		35.9 ^L	%	37.0 - 50.0
MEAN CORPUSCULA		90.1	KR fl	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	30.3	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	33.6	g/dL	32.0 - 36.0
	ON WIDTH (RDW-CV)	13.4	%	11.00 - 16.00
	ON WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	46.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		22.64	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDE by CALCULATED		30.23	RATIO	BETA THALASSEMIA TRAIT:<= 65 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS		5010	,	1000 11000
TOTAL LEUCOCYTE C by FLOW CYTOMETRY DIFFERENTIAL LEUCO	BY SF CUBE & MICROSCOPY	5810	/cmm	4000 - 11000
NEUTROPHILS	BY SF CUBE & MICROSCOPY	55	%	50 - 70
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	37	%	20 - 40
EOSINOPHILS	BY SF CUBE & MICROSCOPY	1	%	1 - 6





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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

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Test Name		Value	Unit	Biological Reference interval
MONOCYTES		7	%	2 - 12
BASOPHILS by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY RY BY SF CUBE & MICROSCOPY YTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTRO		3196	/cmm	2000 - 7500
ABSOLUTE LYMPHC	RY BY SF CUBE & MICROSCOPY OCYTE COUNT RY BY SF CUBE & MICROSCOPY	2150 ^L	/cmm	800 - 4900
ABSOLUTE EOSINO		58	/cmm	40 - 440
ABSOLUTE MONOC		407	/cmm	80 - 880
ABSOLUTE BASOPH		0	/cmm	0 - 110
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>		
PLATELET COUNT (F by hydro dynamic	PLT) FOCUSING, ELECTRICAL IMPEDENCE	166000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC) FOCUSING, ELECTRICAL IMPEDENCE	0.22	%	0.10 - 0.36
MEAN PLATELET VC by HYDRO DYNAMIC	DLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	14 ^H	fL	6.50 - 12.0
PLATELET LARGE CE by HYDRO DYNAMIC	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	85000	/cmm	30000 - 90000
PLATELET LARGE CE	ELL RATIO (P-LCR)	51.6 ^H	%	11.0 - 45.0
PLATELET DISTRIBU	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE UCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE REP (ORTING DATE	: 22/Aug/2024 05:29PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	MBALA CITY - HARYAN	IA	C C
Test Name		Value	Unit	Biological Reference interval
		COSYLATED HAEMC 6.6 ^H	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY,	6.6 ^H) 142.72 ^H		4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY,	6.6 ^H) 142.72 ^H	% mg/dL	
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION:	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY,	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION	% mg/dL	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION:	IOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY, AS PER AMERICAN	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION	% mg/dL	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RI RI Non dial	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY, AS PER AMERICAN EFERENCE GROUP	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION	% mg/dL I (ADA): YLATED HEMOGLOGIB (HE	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RI Non dial At	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY, AS PER AMERICAN EFERENCE GROUP betic Adults >= 18 years	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION	% mg/dL I (ADA): YLATED HEMOGLOGIB (HE <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RI Non dial At	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY, AS PER AMERICAN EFERENCE GROUP betic Adults >= 18 years Risk (Prediabetes)	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION GLYCOS	% mg/dL I (ADA): YLATED HEMOGLOGIB (HE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RI Non dial At Dia	IOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY, PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY, AS PER AMERICAN EFERENCE GROUP betic Adults >= 18 years Risk (Prediabetes)	6.6 ^H) 142.72 ^H DIABETES ASSOCIATION	% mg/dL I (ADA): YLATED HEMOGLOGIB (HE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	60.00 - 140.00

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.

Goal of therapy:

Age < 19 Years

<7.5

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 INST	TITUTE REP	ORTING DATE	: 22/Aug/2024 03:46PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMEN	TATION RATE (ESR)	
	ENTATION RATE (ESR) GREN AUTOMATED METHOD	49 ^H	mm/1st hr	0 - 20
1. ESR is a non-specific immune disease, but d 2. An ESR can be affect as C-reactive protein 3. This test may also be	oes not tell the health practition ed by other conditions besides e used to monitor disease activi	ner exactly where the inflammation. For this	inflammation is in the k reason, the ESR is typic	n associated with infection, cancer and auto body or what is causing it. cally used in conjunction with other test suc ove diseases as well as some others, such as
systemic lupus eryther CONDITION WITH LOW	natosus			

(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 aspiring contraceptives. aspirin, cortisone, and quinine may decrease it





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	FAI	TIENT ID	: 1587593
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P.K.R JAIN HEALTHCARE INS	STITUTE Rep	ORTING DATE	: 22/Aug/2024 01:31PM
NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYAI	NA	
	Value	Unit	Biological Reference interval
CLIN	ICAL CHEMISTRY	//BIOCHEMISTRY	Y
	GLUCOSE FAS	STING (F)	
PLASMA PEROXIDASE (GOD-POD)	98.74	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
	P.K.R JAIN HEALTHCARE INS NASIRPUR, HISSAR ROAD, A CLIN	REG 12504259 COI P.K.R JAIN HEALTHCARE INSTITUTE REF NASIRPUR, HISSAR ROAD, AMBALA CITY - HARVA Value CLINICAL CHEMISTRY GLUCOSE FA PLASMA 98.74	P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F) PLASMA 98.74 mg/dL

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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Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		147.63	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU	JM IATE OXIDASE (ENZYMATIC)	75.98	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E by SELECTIVE INHIBITIC		54.76	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SI by CALCULATED, SPEC		77.67	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		92.87	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: by CALCULATED, SPEC		15.2	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	1	371.24	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	2.7	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		1.42	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			

lest Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL RATIO: SERUM	1.39 ^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 interval
	LIV	ER FUNCTION	I TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.46	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
	(UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	23.71	U/L	7.00 - 45.00
SGPT/ALT: SERUM		26.98	KR U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.88	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		110.03	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	20.16	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	6.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.04	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.45	gm/dL	2.30 - 3.50
Sy UNLOULAILD, SPE				

A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	>2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5

1.65





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RATIO

1.00 - 2.00

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



INTERPRETATION

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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	
	KIE	ONEY FUNCT	ION TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	26.14	mg/dL	10.00 - 50.00	
CREATININE: SERUM by ENZYMATIC, SPECT		0.76	mg/dL	0.40 - 1.20	
BLOOD UREA NITRO		12.21	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO RATIO: SERUM by calculated, species	GEN (BUN)/CREATININE CTROPHOTOMETRY	16.07	RATIO	10.0 - 20.0	
UREA/CREATININE R		34.39	RATIO		
URIC ACID: SERUM by URICASE - OXIDASI	E PEROXIDASE	6.2	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by arsenazo III, spec	CTROPHOTOMETRY	8.53	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER by phosphomolybd. ELECTROLYTES	UM ate, spectrophotometry	2.91	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	142.4	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.6	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM		106.8	mmol/L	90.0 - 110.0	
(eGFR): SERUM by calculated INTERPRETATION:	RULAR FILTERATION RATE	94.2			

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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NAME	: Mrs. SUNITA RANI		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1587593
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REFERRED BY	:	REGISTRATION DATE	: 22/Aug/2024 11:33 AM
BARCODE NO.	: 12504259	COLLECTION DATE	: 22/Aug/2024 03:32PM
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Test Name	Value	Unit	Biological Reference interval

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.

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:

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

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 CODE. : P.K.R JAIN H	EALTHCARE INSTITUTE RE	PORTING DATE : 2	: 22/Aug/2024 04:58PM	
CLIENT ADDRESS : NASIRPUR, H	HISSAR ROAD, AMBALA CITY - HARYA	NA		
Test Name	Value	Unit	Biological Reference interval	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETR	IRON PR 74.1	OFILE μg/dL	37.0 - 145.0	
UNSATURATED IRON BINDING CAPA :SERUM by FERROZINE, SPECTROPHOTOMETE		μg/dL	150.0 - 336.0	
TOTAL IRON BINDING CAPACITY (TI SERUM by SPECTROPHOTOMETERY	BC) 210.67 ^L	μg/dL	230 - 430	
%TRANSFERRIN SATURATION: SERU by CALCULATED, SPECTROPHOTOMET		%	15.0 - 50.0	
··· · ································		mg/dL	200.0 - 350.0	

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

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

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. % 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
Test Name	TUVE	ENDOCRINO	LOGY	Biological Reference interval
			LOGY	Biological Reference interval
TRIIODOTHYRONINE	(T3): SERUM	ENDOCRINO COID FUNCTION	LOGY	Biological Reference interval 0.35 - 1.93
TRIIODOTHYRONINE by cmia (chemilumin THYROXINE (T4): SEI	: (T3): SERUM <i>escent microparticle immunoassay)</i> RUM	ENDOCRINO COID FUNCTION 1.24 6.51	LOGY TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN THYROXINE (T4): SEI by CMIA (CHEMILUMIN THYROID STIMULAT	: (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) RUM ESCENT MICROPARTICLE IMMUNOASSAY) ING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINO COID FUNCTION 1.24 6.51 2.47	LOGY TEST: TOTAL ng/mL	0.35 - 1.93

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	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		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		
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREG	iNANCY (μIU/mL)			
	1st Trimester			0.10 - 2.50			Ī
	2nd Trimester			0.20 - 3.00			Ĩ
	3rd Trimester			0.30 - 4.10			Ĩ

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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD	, AMBALA CITY - HARYAN	A	<u> </u>
Test Name		Value	Unit	Biological Reference interva
		VITAMI	NS	
	N	VITAMIN D/25 HYDRO	DXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM NESCENCE IMMUNOASSAY)	14.51 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	ng	g/mL
	FICIENT:	21 - 29		j/mL
	ED RANGE: CATION:	30 - 100 > 100		g/mL g/mL
3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing di INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION : Replaceme hypervitaminosis D	ion, skeletal calcium depositionay lead to failure to minerali posure. malabsorption (celiac disease Vitamin D 25- hydroxylase ac need Liver disease econdary Hyperparathroidisn rugs: anti-epileptic drugs like D is Rare, and is seen only afte a and hyperphophatemia. ent therapy in deficient individ	ce of calcium homeostatis on, calcium mobilization, ze newly formed osteoid e) tivity n (Mild to Moderate defic phenytoin, phenobarbital er prolonged exposure to e duals must be monitored b	mainly requlated by p in bone, resulting in r and carbamazepine, r extremely high doses by periodic assessmen	n absorption, renal calcium absorption ar barathyroid harmone (PTH). ickets in children and osteomalacia in adu that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can resul t of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment wh</i>
interefere with Vitami	n D absorption.	-		





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NOT VALID FOR MEDICO LEGAL PURPOSE



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Test Name		Value	Unit	Biological Reference interva
by CMIA (CHEMILUMI	LAMIN: SERUM	118.1 ^L	pg/mL	200.0 - 1100.0
by CMIA (CHEMILUMI MMUNOASSAY) I <u>NTERPRETATION:-</u>	NESCENT MICROPARTICLE	118.1 ^L		
by CMIA (CHEMILUMI IMMUNOASSAY) I <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE		DECREASED VITAMIN	
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitam	NESCENT MICROPARTICLE SED VITAMIN B12 nin C	1.Pregna	DECREASED VITAMIN	B12
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen	1.Pregna 2.DRUGS	DECREASED VITAMIN ncy :Aspirin, Anti-convulsants,	B12
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	1.Pregna 2.DRUGS 3.Ethano	DECREASED VITAMIN ncy :Aspirin, Anti-convulsants, I Igestion	B12
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam 4.Hepatocellular in	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	1.Pregna 2.DRUGS 3.Ethano 4. Contra	DECREASED VITAMIN ncy Aspirin, Anti-convulsants, I Igestion ceptive Harmones	B12
IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	1.Pregna 2.DRUGS 3.Ethano 4. Contra 5.Haemo	DECREASED VITAMIN ncy Aspirin, Anti-convulsants, I Igestion ceptive Harmones	B12

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 P	ATHOLOGY	
	URINE RC	OUTINE & MICR	OSCOPIC EXAMINAT	TION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVED	-	30	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOV	Λ/	PALE YELLOW
	TANCE SPECTROPHOTOMETRY	PALE IELLO	ν.	PALE TELLOVV
TRANSPARANCY		CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	J. Dk		
SPECIFIC GRAVITY		1.02		1.002 - 1.030
CHEMICAL EXAMINA	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		NEGATIVE (-	ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR		NEGATIVE (-	ve)	NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
1	TANCE SPECTROPHOTOMETRY	0.0		0.0 - 1.0
BILIRUBIN		NEGATIVE (-	ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		`	
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-	ve)	NEGATIVE (-ve)
UROBILINOGEN		NOT DETECT	ED EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY		20, 42	
KETONE BODIES		NEGATIVE (-	ve)	NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-	vej	NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-	ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		,	
MICROSCOPIC EXAN	<u>/INATION</u>			



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BARCODE NO.	ARCODE NO. : 12504259		ION DATE	: 22/Aug/2024 03:32PM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE REPORTING DATE		: 22/Aug/2024 01:31PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AME	BALA CITY - HARYANA			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (R	RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	
by MICROSCOPY ON (
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5	
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT		/HPF /HPF	0 - 5 ABSENT	
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS	CENTRIFUGED URINARY SEDIMENT	3-4			
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS by MICROSCOPY ON C CASTS	CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT	3-4 2-3		ABSENT	
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS by MICROSCOPY ON C CASTS by MICROSCOPY ON C BACTERIA	CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT	3-4 2-3 NEGATIVE (-ve)		ABSENT NEGATIVE (-ve)	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report

ABSENT





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