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

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

NAME	: Mrs. SANDEEP KAUR			
AGE/ GENDER	: 32 YRS/FEMALE	F	PATIENT ID	: 1605048
COLLECTED BY	:	H	REG. NO./LAB NO.	: 122409070015
REFERRED BY	:	F	REGISTRATION DATE	: 07/Sep/2024 11:33 AM
BARCODE NO.	: 12504548	(	COLLECTION DATE	: 07/Sep/2024 11:44AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE <b>F</b>	REPORTING DATE	: 07/Sep/2024 01:46PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - HAR	YANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WEL	LNESS PANEL: 1.5	
	CON	IPLETE BLO	OD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.8 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (RE	COUNT	4.24	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUN		32.5 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCULA		76.7 <sup>L</sup>	KR 1	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	25.5 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	33.3	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	15.3	%	11.00 - 16.00
RED CELL DISTRIBUT	TON WIDTH (RDW-SD)	45.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		18.09	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13
GREEN & KING INDE by calculated	Х	27.71	RATIO	BETA THALASSEMIA TRAIT:<= 6 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C by FLOW CYTOMETRY DIFFERENTIAL LEUCO	Y BY SF CUBE & MICROSCOPY	7050	/cmm	4000 - 11000
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	59	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	33	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA			I
Test Name		Value	Unit	Biological Reference interval
MONOCYTES		4	%	2 - 12
BASOPHILS	y by sf cube & microscopy y by sf cube & microscopy <b>/TES (WBC) COUNT</b>	0	%	0 - 1
ABSOLUTE NEUTRO	PHIL COUNT	4160	/cmm	2000 - 7500
ABSOLUTE LYMPHO	y by sf cube & microscopy CYTE COUNT y by sf cube & microscopy	2326 <sup>L</sup>	/cmm	800 - 4900
ABSOLUTE EOSINOP		282	/cmm	40 - 440
ABSOLUTE MONOCY		282	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKE			
PLATELET COUNT (P by hydro dynamic f	LT) FOCUSING, ELECTRICAL IMPEDENCE	224000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC F	FOCUSING, ELECTRICAL IMPEDENCE	0.26	%	0.10 - 0.36
MEAN PLATELET VO by HYDRO DYNAMIC F	LUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0
PLATELET LARGE CEI	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	93000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CEI		41.5	%	11.0 - 45.0
PLATELET DISTRIBU		15.8	%	15.0 - 17.0





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BARCODE NO.	: 12504548	С	OLLECTION DATE	: 07/Sep/2024 11:44AM
CLIENT CODE.			EPORTING DATE	: 07/Sep/2024 05:49PM
CLIENT ADDRESS			YANA	
Test Name		Value	Unit	Biological Reference interva
	GLYCC	DSYLATED HAE	MOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN	MOGLOBIN (HbA1c):	6.2	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY)			
ESTIMATED AVERAGI by HPLC (HIGH PERFOR INTERPRETATION:	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	131.24	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIAT	ION (ADA):	
	REFERENCE GROUP		COSYLATED HEMOGLOGIB	(HBAIC) in %
Non dia	abetic Adults >= 18 years	DK	<5.7	
A	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
		Coole o	Age > 19 Years	< 7.0
Therapeut	ic goals for glycemic control		f Therapy: Suggested:	>8.0
morapeut		ACTIONS	Age < 19 Years	-0.0
		Goal of	therapy:	<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 INST	TITUTE	<b>REPORTING DATE</b>	: 07/Sep/2024 03:51PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDI	MENTATION RATE (ESF	2)
ERYTHROCYTE SEDIN	MENTATION RATE (ESR)	8	mm/1st h	0 - 20
	GREN AUTOMATED METHOD	J. J		· 10
(polycythaemia), sign as sickle cells in sickl	n with conditions that inhibit the	unt (leucocytosi	ntation of red blood cells, su is) , and some protein abnor	ich as a high red blood cell count malities. Some changes in red cell shape (su
NOTE:	e protein (C-RP) are both markers			
2. Generally, ESR doe	s not change as rapidly as does C	RP, either at the	e start of inflammation or as	it resolves.
3. CRP is not affected 4. If the ESR is elevate	by as many other factors as is ESF ed, it is typically a result of two ty	<b>R, making it a be</b> (pes of proteins)	tter marker of inflammation , globulins or fibrinogen.	
5. Women tend to ha 6. Drugs such as dext	ve a higher ESR, and menstruation	i and pregnancy	can cause temporary elevat	tions. line, and vitamin A can increase ESR, while





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE	<b>REPORTING DATE</b>	: 07/Sep/2024 01:50PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	Piological Deference interval
		Value	Unit	Biological Reference interval
	CLIN			v
	CLIN	IICAL CHEMIS	TRY/BIOCHEMISTR	v
	CLIN	IICAL CHEMIS		v
GLUCOSE FASTING (F	): PLASMA	IICAL CHEMIS	TRY/BIOCHEMISTR	v
GLUCOSE FASTING (F		IICAL CHEMIS GLUCOSE	TRY/BIOCHEMISTR FASTING (F)	Y

2. 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.

3. 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.K.R JAIN HEALTHCARE IN	STITUTE <b>REPO</b>	DRTING DATE	: 07/Sep/2024 05:02PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYAN	A	
CLIENT ADDRESS Test Name	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYAN Value	A Unit	Biological Reference interval
	: NASIRPUR, HISSAR ROAD, A		Unit	Biological Reference interval

#### **INTERPRETATION**

#### IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A post-prandial glucose level between 140 - 200 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 post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level of above 200 mg/dl is necess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE	<b>REPORTING DATE</b>	:07/Sep/202401:46PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		183.72	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU	JM HATE OXIDASE (ENZYMATIC)	139.19	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		43.99	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SI by CALCULATED, SPEC		111.89	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		139.73 <sup>H</sup>	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		27.84	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC	1	506.63	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	4.18	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		2.54	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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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.)** 



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	- HARYANA	

Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL RATIO: SERUM	3.16	RATIO	3.00 - 5.00
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 eccommended 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 atherogenic) porteins 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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CLIENT ADDRESS			IARYANA	. 07/ 50p/ 2024 01.401 W	
Test Name		Value	Unit	Biological Reference interval	
	LIV	ER FUNCTIO	ON TEST (COMPLETE)		
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.46	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40	
-	(UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	19.1	U/L	7.00 - 45.00	
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	<mark>15.18</mark>		0.00 - 49.00	
AST/ALT RATIO: SER by CALCULATED, SPE	UM	1.26	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA		73.38	U/L	40.0 - 130.0	
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	14.01	U/L	0.00 - 55.0	
TOTAL PROTEINS: SE by BIURET, SPECTRO	ERUM	6.97	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM		4.25	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM		2.72	gm/dL	2.30 - 3.50	

by CALCULATED, SPECTROPHOTOMETRY

A : G RATIO: SERUM

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

1.56





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RATIO

1.00 - 2.00

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INTERPRETATION



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

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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<b>CLIENT ADDRESS</b> : NASIRPUR, HISSAR ROAD,		MBALA CITY - HARYANA		-	
Test Name		Value	Unit	Biological Reference interval	
	KID	NEY FUNCTI	ON TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	21.99	mg/dL	10.00 - 50.00	
CREATININE: SERUM by ENZYMATIC, SPECT		0.66	mg/dL	0.40 - 1.20	
BLOOD UREA NITRO		10.28	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE	15.58	RATIO	10.0 - 20.0	
UREA/CREATININE R	ATIO: SERUM	33.32	RATIO		
URIC ACID: SERUM	E PEROXIDASE	4.85	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	9.02	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER by PHOSPHOMOLYBD. ELECTROLYTES	UM ate, spectrophotometry	2.51	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	139	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.53	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE		104.25	mmol/L	90.0 - 110.0	
(eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	119.5			

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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A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mrs. SANDEEP KAUR		
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1605048
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122409070015
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 07/Sep/2024 11:33 AM
BARCODE NO.	: 12504548	COLLECTION DATE	: 07/Sep/2024 11:44AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 07/Sep/2024 01:46PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	
Test Name	Value	Unit	Biological Reference interval

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.

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 - HARYANA	A	
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM	ROPHOTOMETRY	36.4 <sup>L</sup>	μg/dL	37.0 - 145.0
•	BINDING CAPACITY (UIBC)	363.22 <sup>H</sup>	μg/dL	150.0 - 336.0
TOTAL IRON BINDING SERUM		399.62	µg/dL	230 - 430

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAI
INTERPRETATION:-			
by SPECTROPHOTOMETERY (FERENE)			
TRANSFERRIN: SERUM	283.73	mg/dL	200.0 - 350.0
by CALCULATED, SPECTROPHOTOMET	ERY (FERENE)		
%TRANSFERRIN SATURATION: SERU	M 9.11 <sup>L</sup>	%	15.0 - 50.0
by SPECTROPHOTOMETERY			
:SERUM			
TOTAL IRON BINDING CAPACITY (TIB	SC) 399.62	μg/dL	230 - 430
by FERROZINE, SPECTROPHOTOMETER			
:SERUM			
UNSATURATED IRON BINDING CAPA	CITY (UIBC) 363.22 <sup>H</sup>	μg/dL	150.0 - 336.0

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
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

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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYAN	NA	
Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN	OLOGY	
	тн	YROID FUNCTIO	N TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	1.291 AY)	ng/mL	0.35 - 1.93
THYROXINE (T4): SEI		6.43	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	1.611 AY)	µIU/mL	0.35 - 5.50

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 levies 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)	THYROX	INE (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		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 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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYAN	JA	
Test Name		Value	Unit	Biological Reference interval
	I	MMUNOPATHOLO	GY/SEROLOGY	
		C-REACTIVE PRO		
C-REACTIVE PROTEIN SERUM by NEPHLOMETRY INTERPRETATION:	N (CRP) QUANTITATIVE:	0.44	mg/L	0.0 - 6.0
C-reactive protein     C. CRP levels can incr proliferation.     CRP levels (Quantit rejection, and to mor		more) after severe trau activity of inflammatory sses.	ma, bacterial infectior disease, to detect inf	n, inflammation, surgery, or neoplastic fections after surgery, to detect transplant

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		ROAD, AMBALA CITY - HA		1
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
by CLIA (CHEMILUMII	ROXY VITAMIN D3): S NESCENCE IMMUNOASS		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:	CIENT:	< 20		ı/mL
	FICIENT:	21 - 29		j/mL
	ED RANGE:	30 - 100		j/mL
3 Vitamin D nlavs a r	rimary role in the mai	tein while in circulation.	ostatis. It promotes calcium	
bhosphate reabsorpt 4.Severe deficiency r DECREASED: 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondarv to advar 5.Osteoporosis and S 6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	primary role in the mai ion, skeletal calcium of nay lead to failure to n malabsorption (celiad Vitamin D 25- hydroxy need Liver disease fecondary Hyperparath rugs: anti-epileptic dru D is Rare, and is seen of a and hyperphophatem ent therapy in deficient individuals as compare	ntenance of calcium home eposition, calcium mobiliz- nineralize newly formed os disease) lase activity roidism (Mild to Moderate gs like phenytoin, phenoba nly after prolonged exposu ia. individuals must be monit	ation, mainly regulated by p teoid in bone, resulting in ri e deficiency) arbital and carbamazepine, t ure to extremely high doses ored by periodic assessmen	bort form of Vitamin D, being stored in adipos n absorption, renal calcium absorption and arathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent iency due to excess of melanin pigment which

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAN	A	-	
Test Name	LAMIN: SERUM	Value TAMIN B12/C0 293.1	Unit DBALAMIN pg/mL	Biological Reference inter 200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	TAMIN B12/CO	DBALAMIN pg/mL	200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	LAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	<b>TAMIN B12/C</b> 293.1	OBALAMIN	200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C	TAMIN B12/C0 293.1	DBALAMIN pg/mL	200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	LAMIN: SERUM escent microparticle immunoassay) ED VITAMIN B12 in C gen in A	TAMIN B12/C0 293.1 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition	200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	LAMIN: SERUM escent microparticle immunoassay) eD VITAMIN B12 hin C gen hin A jury	TAMIN B12/C0 293.1 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracept	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones	200.0 - 1100.0	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	LAMIN: SERUM escent microparticle immunoassay) eD VITAMIN B12 hin C gen hin A jury	TAMIN B12/C0 293.1 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis	200.0 - 1100.0	

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	THOLOGY	
	URINE RC	OUTINE & MICROS	SCOPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVE		15	ml	
-	TANCE SPECTROPHOTOMETRY		N	
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	AMBER YELLO	<i>v</i>	PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
	TANCE SPECTROPHOTOMETRY	DK		1 000 1 000
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)	)	NEGATIVE (-ve)
SUGAR	TANGE SI LETIKOI HOTOMETIKI	NEGATIVE (-ve)	)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		, ,	
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE		NEGATIVE (-ve)	)	NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	NOT DETECTED	) EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY			0.2
KETONE BODIES		NEGATIVE (-ve)	)	NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	1+		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)	)	NEGATIVE (-ve)
MICROSCOPIC EXAM				



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SANDEEP KAUR			
AGE/ GENDER	: 32 YRS/FEMALE	PATIE	NT ID	: 1605048
COLLECTED BY	:	REG. N	IO./LAB NO.	: 122409070015
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	: 07/Sep/2024 11:33 AM
BARCODE NO.	: 12504548	COLLE	CTION DATE	:07/Sep/2024 11:44AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE <b>REPO</b>	RTING DATE	:07/Sep/202401:46PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AME	BALA CITY - HARYANA		
T + NI		Mahaa	11 14	Distantial Defense a internet
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (R	BCs)	5-7	/HPF	0 - 3
by MICROSCOPY ON C	ENTRIFUGED URINARY SEDIMENT		/////	0 - 3
PUS CELLS		3-5	/HPF	0-3
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	EENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS	EENTRIFUGED URINARY SEDIMENT	3-5	/HPF	0 - 5
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS by MICROSCOPY ON C CASTS	EENTRIFUGED URINARY SEDIMENT EENTRIFUGED URINARY SEDIMENT EENTRIFUGED URINARY SEDIMENT	3-5 6-7	/HPF	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