TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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

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

NAME	: Mrs. KAVITA			
AGE/ GENDER	: 36 YRS/FEMALE		PATIENT ID	: 1625803
COLLECTED BY	:		REG. NO./LAB NO.	: 122409260001
REFERRED BY	:		REGISTRATION DATE	: 26/Sep/2024 08:42 AM
BARCODE NO.	: 12504931		COLLECTION DATE	: 26/Sep/2024 08:55AM
CLIENT CODE. : P.K.R JAIN HEALTHCARE INST		TE	REPORTING DATE	: 26/Sep/2024 12:53PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.5	
	CON	IPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		8.8 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RB by HYDRO DYNAMIC FO	C) COUNT DCUSING, ELECTRICAL IMPEDENCE	4.27	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUM	E (PCV)	27.3 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR	UTOMATED HEMATOLOGY ANALYZER & VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	64.1 ^L	KR f	80.0 - 100.0
	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	20.7 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR	R HEMOGLOBIN CONC. (MCHC)	32.3	g/dL	32.0 - 36.0
	ON WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	14.6	%	11.00 - 16.00
by CALCULATED BY AU	ON WIDTH (RDW-SD) <i>jtomated hematology analyzer</i>	35.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.01	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE> by CALCULATED	<	22.01	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CC by FLOW CYTOMETRY DIFFERENTIAL LEUCO	BY SF CUBE & MICROSCOPY	8620	/cmm	4000 - 11000
NEUTROPHILS	BY SF CUBE & MICROSCOPY	42 ^L	%	50 - 70
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	51 ^H	%	20 - 40
EOSINOPHILS	BY SF CUBE & MICROSCOPY	0 ^L	%	1 - 6



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB			. 20, 50p, 202 1 12:001 11
Test Name		Value	Unit	Biological Reference interval
MONOCYTES		7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOC				
ABSOLUTE NEUTRO	PHIL COUNT	3620	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHO		4396 ^L	/cmm	800 - 4900
•	Y BY SF CUBE & MICROSCOPY			10, 110
ABSOLUTE EOSINOF	YHIL COUNT YY BY SF CUBE & MICROSCOPY	0 ^L	/cmm	40 - 440
ABSOLUTE MONOCY		603	/cmm	80 - 880
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHI		0	/cmm	0 - 110
•	Y BY SF CUBE & MICROSCOPY	DC		
	HER PLATELET PREDICTIVE MARKE			
PLATELET COUNT (P		297000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.29	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	0.29	70	0.10-0.30
MEAN PLATELET VO		10	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CEI		77000	/cmm	30000 - 90000
by HYDRO DYNAMIC I PLATELET LARGE CE	FOCUSING, ELECTRICAL IMPEDENCE	26.1	%	11.0 - 45.0
	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	20.1	70	11.0 - 43.0
PLATELET DISTRIBU		15.3	%	15.0 - 17.0
by HYDRO DYNAMIC I	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	JCTED ON EDTA WHOLE BLOOD			





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: 12504931	COLLEC	TION DATE	: 26/Sep/2024 08:55AM	
CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTIT		ING DATE	: 26/Sep/2024 04:47PM	
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBA			1	
	Value	Unit	Biological Reference inter	rval
GLYCO	SYLATED HAEMOGL	OBIN (HBA1C)		
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		%	4.0 - 6.4	
	122.63	mg/dL	60.00 - 140.00	
	GLYCOSYLA		(HBAIC) in %	
At Risk (Prediabetes)				
Diagnosing Diabetes		>= 6.5		
		Age > 19 Years		
			< 7.0	
goals for glycemic control	Actions Suggeste		>8.0	
	Castafit		7.5	
	: NASIRPUR, HISSAR ROAD, AMBA GLYCO OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value GLYCOSYLATED HAEMOGLY OGLOBIN (HbA1c): 5.9 MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE 122.63 MANCE LIQUID CHROMATOGRAPHY) COGLOBIN (HbA1c): S.9 MANCE LIQUID CHROMATOGRAPHY) PER AMERICAN DIABETES ASSOCIATION (AD GLYCOSYLAT Detic Adults >= 18 years Risk (Prediabetes) ugnosing Diabetes Goals of Therap goals for glycemic control Goals of Therap	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit GLYCOSYLATED HAEMOGLOBIN (HBA1C) OGLOBIN (HbA1c): 5.9 % MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE 122.63 mg/dL MANCE LIQUID CHROMATOGRAPHY) SEPER AMERICAN DIABETES ASSOCIATION (ADA): EFERENCE GROUP GLYCOSYLATED HEMOGLOGIB Detic Adults >= 18 years <5.7 Risk (Prediabetes) 5.7 – 6.4 Ignosing Diabetes >= 6.5 Age > 19 Years Goals of Therapy:	: P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 26/Sep/2024 04:47PM : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit Biological Reference inte GLYCOSYLATED HAEMOGLOBIN (HBA1C) OGLOBIN (HbA1c): 5.9 % 4.0 - 6.4 WANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE 122.63 mg/dL 60.00 - 140.00 MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE 122.63 mg/dL 60.00 - 140.00 SEFERENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % Detic Adults >= 18 years <5.7 Risk (Prediabetes) 5.7 - 6.4 Ignosing Diabetes <5.7 Risk (Prediabetes) 5.7 - 6.4 Ignosing Diabetes <5.7 Risk (Prediabetes) 5.7 - 6.4 Ignosing Diabetes <5.7 Age > 19 Years Goals of Therapy: <7.0 Actions Suggested: >8.0 Age < 19 Years

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.



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

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



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	TE REPORTIN	G DATE	: 26/Sep/2024 03:57PM		
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						
Test Name		Value	Unit	Biological Reference interval		
	ERYTHROC MENTATION RATE (ESR)	YTE SEDIMENTATIC	N RATE (ESR) mm/1st hr			
by RED CELL AGGRE	GATION BY CAPILLARY PHOTOMETRY	95 ^H	11111/15111	0 - 20		
immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitioner ex cted by other conditions besides inflan be used to monitor disease activity and	kactly where the inflammentation. For this reason	mation is in the k n, 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		
(polycythaemia), sigr	n with conditions that inhibit the norm	nal sedimentation of rec eucocytosis) , and some	d blood cells, suc e protein abnorn	h as a high red blood cell count nalities. Some changes in red cell shape (su		
1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected	e protein (C-RP) are both markers of in s not change as rapidly as does CRP, ei by as many other factors as is ESR, mal	ither at the start of infla king it a better marker o	of inflammation.	t resolves.		

4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment and pregnance and environment. aspirin, cortisone, and quinine may decrease it





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RS/FEMALE 4931 JAIN HEALTHCARE INS RPUR, HISSAR ROAD, AM	RI RI CO STITUTE RI	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE (ANA Unit	: 1625803 : 122409260001 : 26/Sep/2024 08:42 AM : 26/Sep/2024 08:55AM : 26/Sep/2024 12:53PM Biological Reference interval
JAIN HEALTHCARE INS	RI CC STITUTE RI MBALA CITY - HARY	EGISTRATION DATE DLLECTION DATE EPORTING DATE 'ANA	: 26/Sep/2024 08:42 AM : 26/Sep/2024 08:55AM : 26/Sep/2024 12:53PM
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	MBALA CITY - HARY	ZANA	-
RPUR, HISSAR ROAD, AN			Piological Deference interval
	Value	Linit	Piological Poforonco intorval
	Value	Unit	Biological Deference interval
		Onit	Diviogical Reference interval
CLINI	ICAL CHEMIST	RY/BIOCHEMISTR	Y
	GLUCOSE F.	ASTING (F)	
	70.11	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
, 	MA XIDASE (GOD-POD) ICAN DIABETES ASSOCIAT	GLUCOSE F MA 70.11	XIDASE (GOD-POD)

A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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AGE/ GENDER: 30COLLECTED BY:REFERRED BY:BARCODE NO.: 12CLIENT CODE.: P	Irs. KAVITA 6 YRS/FEMALE 2504931 .K.R JAIN HEALTHCARE IN ASIRPUR, HISSAR ROAD, A	STITUTE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1625803 : 122409260001 : 26/Sep/2024 08:42 AM : 26/Sep/2024 08:55AM : 26/Sep/2024 12:53PM
Test Name	ASIKI UK, IIISSAK KOAD, P	Value	Unit	Biological Reference interval
L			OFILE : BASIC	_
CHOLESTEROL TOTAL: SE by CHOLESTEROL OXIDAS		158.75	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE	E OXIDASE (ENZYMATIC)	102.44	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRE by SELECTIVE INHIBITION	CT): SERUM	46.1	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERU by CALCULATED, SPECTRO		92.16	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 CHOLESTEROL: by calculated, spectro		112.65	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: SER		20.49	mg/dL	0.00 - 45.00
by CALCULATED, SPECTRO TOTAL LIPIDS: SERUM		419.94	mg/dL	350.00 - 700.00
by CALCULATED, SPECTRO CHOLESTEROL/HDL RATIO by CALCULATED, SPECTRO	O: SERUM	3.44	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: SERUM by CALCULATED, SPECTRO	DPHOTOMETRY	2	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name	Value	Unit	Biological Reference interval		

TRIGLYCERIDES/HDL RATIO: SERUM RATIO 3.00 - 5.00 2.22^L by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION:

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

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

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

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

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



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Test Name		Value	Unit	Biological Reference interval	
	LIVE	R FUNCTIO	ON TEST (COMPLETE)		
BILIRUBIN TOTAL: S		0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.16	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	28.48	U/L	7.00 - 45.00	
SGPT/ALT: SERUM		53.9 ^H	KD U/L	0.00 - 49.00	
AST/ALT RATIO: SER by CALCULATED, SPE		0.53	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA		98.25	U/L	40.0 - 130.0	
GAMMA GLUTAMYI by szasz, spectro	L TRANSFERASE (GGT): SERUM	74.23 ^H	U/L	0.00 - 55.0	
TOTAL PROTEINS: SE	ERUM	7.16	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.04	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY	3.12	gm/dL	2.30 - 3.50	
A : G RATIO: SERUM by calculated, spe		1.29	RATIO	1.00 - 2.00	

INTERPRETATION

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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	Test Name	Value	Unit	Biological Reference interval
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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



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Test Name		Value	Unit	Biological Reference interval	
	KIE	ONEY FUNCTION	ON TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAMA	ATE DEHYDROGENASE (GLDH)	17.11	mg/dL	10.00 - 50.00	
CREATININE: SERUM by ENZYMATIC, SPECT		0.43	mg/dL	0.40 - 1.20	
BLOOD UREA NITROG	CTROPHOTOMETRY	8	mg/dL	7.0 - 25.0	
BLOOD UREA NITROC RATIO: SERUM by CALCULATED, SPEC	GEN (BUN)/CREATININE	18.6	RATIO	10.0 - 20.0	
UREA/CREATININE RA	ATIO: SERUM	39.79	KR RATIO		
URIC ACID: SERUM by URICASE - OXIDASE	PEROXIDASE	4.78	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPEC	TROPHOTOMETRY	9.85	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SERU by PHOSPHOMOLYBDA ELECTROLYTES	JM ate, spectrophotometry	2.79	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE	ELECTRODE)	140.6	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.04	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ESTIMATED GLOMER	ELECTRODE) ULAR FILTERATION RATE	105.45	mmol/L	90.0 - 110.0	
(eGFR): SERUM by CALCULATED INTERPRETATION:	ULAR FILTERATION RATE en pre- and post renal azotemia.	129.2			

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.



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

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



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. KAVITA				
AGE/ GENDER	: 36 YRS/FEMALE	PATIENT ID	: 1625803		
COLLECTED BY	:	REG. NO./LAB NO.	: 122409260001		
REFERRED BY	:	REGISTRATION DATE	: 26/Sep/2024 08:42 AM		
BARCODE NO.	: 12504931	COLLECTION DATE	: 26/Sep/2024 08:55AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 26/Sep/2024 12:53PM		
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA					
Test Name	Value	Unit	Biological Reference interval		
3. GI haemorrhage.					
 High protein intake Impaired renal fur 					
	ike or production or tissue breakdown (e.g. infe	ection, GI bleeding, thyrotoxic	osis, Cushing's syndrome, high protein diet,		
burns, surgery, cache					
7. Urine reabsorption	n (e.g. ureter colostomy)				

8. Reduced muscle mass (subnormal creatinine production)

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

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

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

2. Prerenal azotemia superimposed on renal disease.

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

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

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

- 6. Inherited hyperammonemias (urea is virtually absent in blood).
- 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.
- 8. Pregnancy.

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

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

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

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

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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

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





A PIONEER DIAGNOSTIC CENTRE

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

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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



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

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





PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE R I	EPORTING DATE	: 26/Sep/2024 04:56PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
		IRON PI	ROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	39.5	μg/dL	37.0 - 145.0
UNSATURATED IRON SERUM by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	246.91	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	G CAPACITY (TIBC)	286.41	µg/dL	230 - 430
%TRANSFERRIN SAT		13.79 ^L	R %	15.0 - 50.0
TRANSFERRIN: SERU	IM	203.35	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

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





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Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN	IOLOGY	
	THYR	OID FUNCTIO	N TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM Nescent microparticle immunoassay)	1.29	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM vescent microparticle immunoassay)	7.18	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM vescent microparticle immunoassay) rasensitive	1.31	µIU/mL	0.35 - 5.50
INTERPRETATION:				

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and 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) THYROX		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





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

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





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

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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			T
	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



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

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





A PIONEER DIAGNOSTIC CENTRE

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

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Test Name		Value	Unit	Biological Reference interv	al
		VITAN	/INS		
		VITAMIN D/25 HYD	ROXY VITAMIN D3		
	ROXY VITAMIN D3): SERUN vescence immunoassay)	И 19.59 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
	CIENT:	< 20	nc	g/mL	
INSUF	FICIENT:	21 - 29		g/mL	
	ED RANGE:	30 - 100 > 100		g/mL g/mL	
3.Vitamin D plays a p phosphate 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 du INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION : Replaceme hypervitaminosis D	ion, skeletal calcium deposi nay lead to failure to minera malabsorption (celiac disea Vitamin D 25- hydroxylase a ced Liver disease secondary Hyperparathroidis rugs: anti-epileptic drugs lik D is Rare, and is seen only af a and hyperphophatemia. ent therapy in deficient indiv	ance of calcium homeosta tion, calcium mobilizatio alize newly formed osteoi ase) activity sm (Mild to Moderate de e phenytoin, phenobarbit fter prolonged exposure t viduals must be monitored	n, mainly regulated by p d in bone, resulting in r ficiency) al and carbamazepine, f o extremely high doses d by periodic assessmen	n absorption, renal calcium absorption a parathyroid harmone (PTH). ickets in children and osteomalacia in ad that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can resu t of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment wh</i>	lults. Ilt in
interefere with Vitam	n D absorption.				





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE



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Test Name		Value	Unit	Biological Reference inte	
			COBALAIVIIN		
by CMIA (CHEMILUMI	LAMIN: SERUM IESCENT MICROPARTICLE IMMUNOASS	231.1	/COBALAMIN pg/mL	200.0 - 1100.0	
INTERPRETATION:-		231.1			
by CMIA (CHEMILUMII INTERPRETATION:- INCREA 1.Ingestion of Vitar	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C	231.1	pg/mL DECREASED VITAMIN		
by CMIA (CHEMILUMII INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C gen	231.1 (AY) 1.Pregnanc 2.DRUGS:A	pg/mL DECREASED VITAMIN Sy spirin, Anti-convulsants,	B12	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C gen nin A	231.1 AY) 1.Pregnanc 2.DRUGS:A 3.Ethanol I	pg/mL DECREASED VITAMIN sy spirin, Anti-convulsants, gestion	B12	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C gen nin A jury	231.1 AY) 1.Pregnanc 2.DRUGS:A 3.Ethanol I 4. Contrace	pg/mL DECREASED VITAMIN y spirin, Anti-convulsants, gestion eptive Harmones	B12	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C gen nin A jury	231.1 AY) 1.Pregnanc 2.DRUGS:A 3.Ethanol I	pg/mL DECREASED VITAMIN y spirin, Anti-convulsants, gestion eptive Harmones ialysis	B12	

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

5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

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

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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

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



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

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Test Name		Value	Unit	Biological Reference interva			
		CLINICAL PATHO	IOGY				
	URINE RO	OUTINE & MICROSCO		ION			
PHYSICAL EXAMINA							
QUANTITY RECIEVED) TANCE SPECTROPHOTOMETRY	20	ml				
COLOUR		AMBER YELLOW		PALE YELLOW			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR			
SPECIFIC GRAVITY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.02 PKK		1.002 - 1.030			
CHEMICAL EXAMINA	TION						
REACTION		ACIDIC					
PROTEIN	TANCE SPECTROPHOTOMETRY	TRACE		NEGATIVE (-ve)			
SUGAR	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)			
pH		6		5.0 - 7.5			
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)			
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)			
	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0			
•	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)			
-	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)			
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY I INATION	NEGATIVE (-ve)		NEGATIVE (-ve)			



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

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NOT VALID FOR MEDICO LEGAL PURPOSE



NAME

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
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	0 - 5
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	CALCIUM OXALATE	(++)	NEGATIVE (-ve)
CASTS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAG	SINALIS (PROTOZOA)	ABSENT		ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

: Mrs. KAVITA

*** End Of Report





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

