A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. ISHITA GUPTA			
AGE/ GENDER	: 31 YRS/FEMALE		PATIENT ID	: 1710937
COLLECTED BY	:		REG. NO./LAB NO.	: 122412280009
REFERRED BY	:		REGISTRATION DATE	: 28/Dec/2024 04:05 PM
BARCODE NO.	: 12506328		COLLECTION DATE	: 28/Dec/2024 04:09PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	REPORTING DATE	: 28/Dec/2024 07:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WI	ELLNESS PANEL: 1.5	i
	СОМР	LETE BI	LOOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HE		12	gm/dL	12.0 - 16.0
RED BLOOD CELL (I	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	3.74	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	34.6 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	AR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	92.4	KR fl	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	32	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	34.6	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV)	13.8	%	11.00 - 16.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	46.7	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		24.71	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA:
GREEN & KING IND by CALCULATED	EX	34	RATIO	>13.0 BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI	LLS (WBCS)			
,	BY SF CUBE & MICROSCOPY	8210	/cmm	4000 - 11000
	<u>UCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	61	%	50 - 70
LYMPHOCYTES		30	%	20 - 40



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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Test Name		Value	Unit	Biological Reference interval
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12
	Y BY SF CUBE & MICROSCOPY CYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTR		5008	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETRY	OCYTE COUNT y by sf cube & microscopy	2463	/cmm	800 - 4900
ABSOLUTE EOSINC	OPHIL COUNT y by sf cube & microscopy	82	/cmm	40 - 440
ABSOLUTE MONOC	YTE COUNT y by sf cube & microscopy	657	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND (OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	214000	/cmm	150000 - 450000
	OCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36
	OCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	94000 ^H	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	44.1	%	11.0 - 45.0
	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.5	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE REPOR	FING DATE	: 29/Dec/2024 02:14AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOGI	LOBIN (HBA1C)	
WHOLE BLOOD	MOGLOBIN (HbA1c):	5.7	%	4.0 - 6.4
ESTIMATED AVERAG		116.89	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	BETES ASSOCIATION (ADA):		
		GLYCOSYLATED HE	MOGLOGIB (HBAIC) in	1 %
	etic Adults >= 18 years	<5.7		
	Risk (Prediabetes)	5.7 – 6 .4		
Dia	gnosing Diabetes	>= 6.5		
		9	> 19 Years	
		Coals of Thorapy	- 10	
Therapeutic	goals for glycemic control	Goals of Therapy:	< 7.0	
Therapeutic	goals for glycemic control	Actions Suggested:	< 7.0 >8.0 < 19 Years	

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 4.High appropiate.

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 ADDRESS	DRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			
Test Name	Value	Unit	Biological Reference interval	

Peak NameRetention Time(s)AbsorbanceAreaResult (Area %)HbA0 HbA1c38494125.7La1c HbF26301792.5HbF Hba1b1213270.1HbF Hba1a1219630.9	Name : Age : Gender :	Case : Department :	Patient Type : Sample Type :	Whole Blood EDTA	Test Date:29/12 Sample ld:12506 Total Area:9886	
HbA1c 38 49 412 5.7 Latc 26 30 179 2.5 HbF 21 13 27 0.1 Hba1b 14 26 77 1.1 Hba1a 12 19 63 0.9	Peak Name	Retention Time(s)	Absorbance	Area	Result (Area	%)
La1c 26 30 179 2.5 HbF 21 13 27 0.1 Hba1b 14 26 77 1.1 Hba1a 12 19 63 0.9 0.03 - 0.02 -	HbA0	68	2969	9128	92.3	
HbF 21 13 27 0.1 Hba1b 14 26 77 1.1 Hba1a 12 19 63 0.9 0.03 - 0.025 - 0.025 - 0.025 - 0.025 - 0.025 - 0.01 -	HbA1c	38	49	412	5.7	
Hba1b Hba1a 14 26 77 1.1 Hba1a 12 19 63 0.9	La1c	26	30	179	2.5	
Hba1a 12 19 63 0.9						
0.03 0.025 0.02- 0.02- 0.02- 0.01- 0.01- 0.05- 0.01- 0.05- 0.						
0.025 - 0.02 - 0.01 - 0.01 - 0.005 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Hba1a	12	19	63	0.9	
0.02 - 0.015 - 0.01 - 0.005	0.03				Choromotography Hba1c	
	0.025		MI			
	0.02-					
	Se 0.015					
	0.01-		/ \			
0 10 20 30 40 50 60 70 80 90 100 110 120 130	0.005 -	0				
0 10 20 30 40 50 60 70 80 90 100 110 120 130						
			<u> </u>	`		
Time(S)		0 20 30 40 50 60		00 110 120 130		
			me(S)			
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NAME	: Mrs. ISHITA GUPTA				
AGE/ GENDER	: 31 YRS/FEMALE	PA	TIENT ID	: 171093	37
COLLECTED BY	:	RE	G. NO./LAB NO.	: 12241	12280009
REFERRED BY	:	RF	GISTRATION DATE	:28/De	c/2024 04:05 PM
BARCODE NO.	ARCODE NO. : 12506328		LLECTION DATE	:28/De	c/2024 04:09PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE RE	PORTING DATE	:28/De	c/2024 08:21PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARY	ANA		
Test Name		Value	Unit		Biological Reference interval
	ERYTHRO	OCYTE SEDIME	NTATION RATE (ESR)	
by RED CELL AGGRE	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY		mm/1st		0 - 20 ted with infection, cancer and auto
immune disease, but	does not tell the health practition	er exactly where th	e inflammation is in the	e body or w	hat is causing it. I in conjunction with other test suc
	be used to monitor disease activit	y and response to t	herapy in both of the a	bove disea	ses as well as some others, such as
systemic lupus erythe	ematosus W ESR				
(polycythaemia), sigr as sickle cells in sickl	n with conditions that inhibit the in hificantly high white blood cell cou le cell anaemia) also lower the ES	Int (leucocytosis)	ion of red blood cells, s and some protein abno	uch as a hic ormalities. S	gh red blood cell count some changes in red cell shape (su
NOTE: 1. ESR and C - reactiv	e protein (C-RP) are both markers	of inflammation.			
2. Generally, ESR doe	es not change as rapidly as does CF	P, either at the sta			5.
 CRP is not affected If the ESR is elevat 	by as many other factors as is ESR ed, it is typically a result of two ty	, making it a better pes of proteins, glo	marker of inflammation bulins or fibrinogen.	n.	
5. Women tend to ha	ive a higher ESR, and menstruation	and pregnancy car	cause temporary eleva	ations.	
	tran, methyldopa, oral contracepti	ves, penicillamine	procainamide, theophy	iline, and v	itamin A can increase ESR, while

aspirin, cortisone, and quinine may decrease it





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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Test Name	Va	lue Unit	Biological Reference interva
	CLINICAL CH	IEMISTRY/BIOCHEMIST	RY
	GL	UCOSE FASTING (F)	

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





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		185.84	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM phate oxidase (enzymatic)	133.21	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	50. <mark>36</mark>	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		108.84	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPE		135.48 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		26.64	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	504.89	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		3.69	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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NOT VALID FOR MEDICO LEGAL PURPOSE



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Test N	ame	Value	Unit	Biological Reference interval
	DL RATIO: SERUM .culated, spectrophotometry	2.16	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	YCERIDES/HDL RATIO: SERUM .culated, spectrophotometry	2.65 ^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

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

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



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Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	SERUM PECTROPHOTOMETRY	0.28	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.17	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	19.91	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	20.27	U/L	0.00 - 49.00
AST/ALT RATIO: SI	ERUM	0.98	RATIO	0.00 - 46.00
ALKALINE PHOSPH by Para Nitrophen propanol	IATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	88.7	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	10.13	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.58	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.26	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE	-	2.32 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE		1.84 ^H	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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|--|

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).

PROGNOSTIC	SIGNIFICANCE:

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
	KIDNI	EY FUNCTIO	ON TEST (COMPLETE))
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	29.86	mg/dL	10.00 - 50.00
CREATININE: SERU		0.56	mg/dL	0.40 - 1.20
BLOOD UREA NITR	COGEN (BUN): SERUM	13.95	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	24.91 ^H	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	53.32	RATIO	
URIC ACID: SERUM		3.46	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.39	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		2.64	mg/dL	2.30 - 4.70

by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY		
<u>ELECTROLYTES</u>		
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	140.6	mmol/L
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.7	mmol/L
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	105.45	mmol/L
ESTIMATED GLOMERULAR FILTERATION RATE		
ESTIMATED GLOMERULAR FILTERATION RATE	125.1	

⁽eGFR): SERUM by CALCULATED

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.

3. GI haemorrhage.



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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.)**



135.0 - 150.0

3.50 - 5.00

90.0 - 110.0

INTERPRETATION:

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. ISHITA GUPTA		
AGE/ GENDER	: 31 YRS/FEMALE	PATIENT ID	: 1710937
COLLECTED BY	:	REG. NO./LAB NO.	: 122412280009
REFERRED BY	:	REGISTRATION DATE	: 28/Dec/2024 04:05 PM
BARCODE NO.	: 12506328	COLLECTION DATE	: 28/Dec/2024 04:09PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	E REPORTING DATE	: 28/Dec/2024 07:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	CITY - HARYANA	
Test Name		Value Unit	Biological Reference interv
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU	 (e.g. ureter colostomy) (ass (subnormal creatinine production) (tetracycline, glucocorticoids) (20:1) WITH ELEVATED CREATININE LEVEL (a (BUN rises disproportionately more the superimposed on renal disease. (10:1) WITH DECREASED BUN : (osis. (osis. (urea rather than creatinine diffuses ou monemias (urea is virtually absent in b of inappropiate antidiuretic harmone) d (10:1) WITH INCREASED CREATININE: (py (accelerates conversion of creatine eleases muscle creatinine). (who develop renal failure. (creased BUN/creatinine ratio). (acetoacetate causes false increase creased BUN/creatinine measure JLAR FILTERATION RATE: 	an creatinine) (e.g. obstructive uro it of extracellular fluid). lood). ue to tubular secretion of urea. to creatinine). in creatinine with certain method ement).	ologies,resulting in normal ratio when dehydr
CKD STAGE G1	DESCRIPTION Normal kidney function	GFR (mL/min/1.73m2) >90	ASSOCIATED FINDINGS No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Ibumin 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 CODE.	: P.K.R JAIN HEALTHCARE IN	ISTITUTE	REPORTING DATE	: 28/Dec/2024 10:23PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,	AMBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	52.33	µg/dL	37.0 - 145.0

INTERPRETATION:-			
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	231.85	mg/dL	200.0 - 350.0
%TRANSFERRIN SATURATION: SERUM by CALCULATED, SPECTROPHOTOMETERY (FERENE)	16.03	%	15.0 - 50.0
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY	326.55	µg/dL	230 - 430
UNSATURATED IRON BINDING CAPACITY (UIE :SERUM by FERROZINE, SPECTROPHOTOMETERY	3C) 274.22	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.

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, AMBAL	A CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interval
Test Name				Biological Reference interval
Test Name		ENDOCRIN	OLOGY	Biological Reference interval
Test Name	THYRO	ENDOCRIN		Biological Reference interval
TRIIODOTHYRONIN		ENDOCRIN	OLOGY	Biological Reference interva 0.35 - 1.93
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN DID FUNCTIO	OLOGY N TEST: TOTAL	U
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM escent microparticle immunoassay) ERUM	ENDOCRIN DID FUNCTIO 1.36	OLOGY N TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM escent microparticle immunoassay) ERUM escent microparticle immunoassay) TING HORMONE (TSH): SERUM escent microparticle immunoassay)	ENDOCRIN DID FUNCTIO 1.36 7.61	OLOGY N TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60

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

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING 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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	ARYANA	

Fest Name		Value Unit		Biological Reference interval		
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	VELS DURING PREC	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HAR	YANA	
Test Name		Value	Unit	Biological Reference interva
		VITA	MINS	
	VITAM	IN D/25 HY	DROXY VITAMIN D3	8
	VIIAN			

INTERPRETATION:

INTERPRETATION:		
DEFICIENT:	< 20	ng/mL
INSUFFICIENT:	21 - 29	ng/mL
PREFFERED RANGE:	30 - 100	ng/mL
INTOXICATION:	> 100	ng/mL

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

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

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

DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease)

3. Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

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

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

INCREASED:

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

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

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



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 28/Dec/2024 09:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA C		
Fast Name			
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN	VITA ALAMIN: SERUM 1	alue Unit MIN B12/COBALAMIN 65 ^L	Biological Reference interva 190.0 - 890.0
VITAMIN B12/COB	VITA	MIN B12/COBALAMIN	U
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	MIN B12/COBALAMIN	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C	MIN B12/COBALAMIN 65 ^L pg/mL DECREASED VITAMIN 1.Pregnancy	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C jen	MIN B12/COBALAMIN 65 ^L pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C jen in A	MIN B12/COBALAMIN 65 ^L pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroo 3.Ingestion of Vitam 4.Hepatocellular in	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C jen in A ury	MIN B12/COBALAMIN 65 ^L pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion 4. Contraceptive Harmones	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C jen in A ury	MIN B12/COBALAMIN 65 ^L pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion	190.0 - 890.0

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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARY	/ANA	
Test Name		Value	Unit	Biological Reference interv
		CLINICAL P	ATHOLOGY	
	URINE ROU	UTINE & MICR	OSCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV by DIP STICK/REFLEC	ED TANCE SPECTROPHOTOMETRY	20	ml	
COLOUR		YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	TURBID		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
<u>CHEMICAL EXAMI</u>	<u>NATION</u>			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
pH		5.5		5.0 - 7.5
by DIP STICK/REFLEC BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-VA)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE	(-ve)	NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	NOT DETEC	TED EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	TRACE		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
RED BLOOD CELLS		3-4	/HPF	0 - 3

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NOT VALID FOR MEDICO LEGAL PURPOSE



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. ISHITA GUPTA			
AGE/ GENDER	: 31 YRS/FEMALE	PATIENT I	D	: 1710937
COLLECTED BY	:	REG. NO. /1	LAB NO.	: 122412280009
REFERRED BY	:	REGISTRA	TION DATE	: 28/Dec/2024 04:05 PM
BARCODE NO.	: 12506328	COLLECTI	ON DATE	: 28/Dec/2024 04:09PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE REPORTIN	IG DATE	: 28/Dec/2024 07:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
	CENTRIFUGED URINARY SEDIMENT	Value	Unit	Biological Reference interval
by MICROSCOPY ON O PUS CELLS	CENTRIFUGED URINARY SEDIMENT	Value 6-7	Unit /HPF	Biological Reference interval 0 - 5
by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELL:	CENTRIFUGED URINARY SEDIMENT			

CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	POSITIVE (+ve)	NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT	ABSENT

* End Of Report ***



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