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

NAME	: Mrs. SHIVALI				
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 173343	1
COLLECTED BY	:		REG. NO./LAB NO.	: 12250	1240015
REFERRED BY	:		REGISTRATION DATE	: 24/Jan/	2025 11:19 AM
BARCODE NO.	: 12506662		COLLECTION DATE	: 24/Jan/	2025 11:33AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	REPORTING DATE	:24/Jan/	2025 01:31PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	.A CITY - H	IARYANA		
Test Name		Value	Unit		Biological Reference interval
	SWAST	HYA W	ELLNESS PANEL: 1.5	j	
	СОМР	LETE B	LOOD COUNT (CBC)		
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H		10.4 ^L	gm/dL		12.0 - 16.0
RED BLOOD CELL (4.02	Millions	cmm	3.50 - 5.00
PACKED CELL VOL	FOCUSING, ELECTRICAL IMPEDENCE UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	30.9 ^L	%		37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	76.9 ^L	KR fl		80.0 - 100.0
	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	25.8 ^L	pg		27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	33.6	g/dL		32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	17.1 ^H	%		11.00 - 16.00
	UTION WIDTH (RDW-SD) automated hematology analyzer	49	fL		35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.13	RATIO		BETA THALASSEMIA TRAIT: < 13.0
					IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	32.62	RATIO		BETA THALASSEMIA TRAIT:<= 65.0
.,					IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)				
,	Y BY SF CUBE & MICROSCOPY	5980	/cmm		4000 - 11000
	<u>UCOCYTE COUNT (DLC)</u>				
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	52	%		50 - 70
Sy I LOW OTTOWETR					



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NAME : N	Ars. SHIVALI				
AGE/ GENDER : 3	35 YRS/FEMALE		PATIENT ID	: 1733431	
COLLECTED BY :			REG. NO./LAB NO.	: 122501240015	
REFERRED BY :			REGISTRATION DATE	: 24/Jan/2025 11:19 AM	
BARCODE NO. : 1			COLLECTION DATE	: 24/Jan/2025 11:33AM	
CLIENT CODE. : H	P.K.R JAIN HEALTHCARE INSTIT	UTE	REPORTING DATE	: 24/Jan/2025 01:31PM	
CLIENT ADDRESS : N	NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA		
Test Name		Value	Unit	Biological Reference interval	
LYMPHOCYTES		41 ^H	%	20 - 40	
by FLOW CYTOMETRY BY EOSINOPHILS by FLOW CYTOMETRY BY		1	%	1 - 6	
MONOCYTES by FLOW CYTOMETRY BY	SF CUBE & MICROSCOPY	6	%	2 - 12	
BASOPHILS by FLOW CYTOMETRY BY		0	%	0 - 1	
ABSOLUTE LEUKOCY					
ABSOLUTE NEUTROPH by FLOW CYTOMETRY BY		3110	/cmm	2000 - 7500	
ABSOLUTE LYMPHOCY by FLOW CYTOMETRY BY	TE COUNT	2452 ^L	KR /cmm	800 - 4900	
ABSOLUTE EOSINOPH by FLOW CYTOMETRY BY		60	/cmm	40 - 440	
ABSOLUTE MONOCYTE		359	/cmm	80 - 880	
ABSOLUTE BASOPHIL by FLOW CYTOMETRY BY		0	/cmm	0 - 110	
PLATELETS AND OTH	ER PLATELET PREDICTIVE	MARKERS.			
PLATELET COUNT (PL' by hydro dynamic focu	Г) ISING, ELECTRICAL IMPEDENCE	433000	/cmm	150000 - 450000	
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCU	ISING, ELECTRICAL IMPEDENCE	0.36	%	0.10 - 0.36	
MEAN PLATELET VOLU by HYDRO DYNAMIC FOCU	JME (MPV) Ising, electrical impedence	8	fL	6.50 - 12.0	
PLATELET LARGE CEL by HYDRO DYNAMIC FOCU	L COUNT (P-LCC) ISING, ELECTRICAL IMPEDENCE	67000	/cmm	30000 - 90000	
PLATELET LARGE CEL by HYDRO DYNAMIC FOCU	L RATIO (P-LCR) ISING, ELECTRICAL IMPEDENCE	15.5	%	11.0 - 45.0	
,	ION WIDTH (PDW) ising, electrical impedence ED ON EDTA WHOLE BLOOD	15.4	%	15.0 - 17.0	



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RS/FEMALE 6662 2 JAIN HEALTHCARE INSTIT]] (PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE	: 1733431 : 12250124001 : 24/Jan/2025 11:	
JAIN HEALTHCARE INSTIT]	REGISTRATION DATE		
JAIN HEALTHCARE INSTIT	(: 24/Jan/2025 11:	10.434
JAIN HEALTHCARE INSTIT	(19 AM
JAIN HEALTHCARE INSTIT			: 24/Jan/2025 11:	
	rurre 1	REPORTING DATE	: 24/Jan/2025 03:	
			: 24/ Jan/ 2025 05:	JOLM
RPUR, HISSAR ROAD, AMBA	ALA CITY - HAR	CYANA		
	Value	Unit	Biologic	cal Reference interval
GLYCOS	YLATED HA	EMOGLOBIN (HBA1	C)	
	5	20	4.0 - 0.4	
SMA GLUCOSE	96.8	mg/dL	60.00 -	140.00
	ABETES ASSOCIA			7
			(HBAIC) in %	-
ults >= 18 years		<5.7		-
ediabetes)		5.7 – 6.4		
j Diabetes		>= 6.5		
		Age > 19 Years		
				_
or grycemic control	Actions		>8.0	4
	Coolo		<7.5	_
	OBIN (HbA1c): Liquid chromatography) SMA GLUCOSE Liquid chromatography)	GLYCOSYLATED HAN OBIN (HbA1c): 5 LIQUID CHROMATOGRAPHY) 5 SMA GLUCOSE 96.8 LIQUID CHROMATOGRAPHY) 96.8 SMA GLUCOSE 96.8 LIQUID CHROMATOGRAPHY) 96.8 Constant of the second s	GLYCOSYLATED HAEMOGLOBIN (HBA1) OBIN (HbA1c): 5 % LIQUID CHROMATOGRAPHY) 5 % SMA GLUCOSE 96.8 mg/dL LIQUID CHROMATOGRAPHY) 96.8 mg/dL CE GROUP GLYCOSYLATED HEMOGLOGIB Mults >= 18 years <5.7	GLYCOSYLATED HAEMOGLOBIN (HBA1C) OBIN (HbA1c): 5 % 4.0 - 6.4 LIQUID CHROMATOGRAPHY) 96.8 mg/dL 60.00 - 1 SMA GLUCOSE 96.8 mg/dL 60.00 - 1 LIQUID CHROMATOGRAPHY) SMA GLUCOSE 96.8 mg/dL 60.00 - 1 CE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % dults >= 18 years <5.7

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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NAME	: Mrs. SHIVALI			
AGE/ GENDER	: 35 YRS/FEMALE	PA	TIENT ID	: 1733431
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REFERRED BY	:	RF	EGISTRATION DATE	: 24/Jan/2025 11:19 AM
BARCODE NO.	: 12506662	CO	LLECTION DATE	: 24/Jan/2025 11:33AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE RE	EPORTING DATE	: 24/Jan/2025 03:48PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	INTATION RATE (ESR)
	ERYTHRO(DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	CYTE SEDIME 30 ^H	ENTATION RATE (1 mm/1st	,

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

LER and C - reactive protein (C-RP) are both markers of inflammation.
Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
Drugs such as dovtram, motbuling, and vities and vit

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while

aspirin, cortisone, and quinine may decrease it



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE RE	PORTING DATE	: 24/Jan/2025 01:31PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interva
Test Name	CLINI		Unit Y/BIOCHEMIST	
Test Name	CLINI		Y/BIOCHEMIST	

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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NAME	: Mrs. SHIVALI			
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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		REPORTING DATE	: 24/Jan/2025 01:31PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HA		
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		193.82	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)	72.31	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	53.71	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		125.65	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		140.11 ^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(14.46	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	RUM	459.95	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		3.61	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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	
CLIENT ADDRESS	: NASIKPUK, HISSAK KUAD, AMBALA CITY	- NAKIANA	
Test Name	Valua	Unit	Dialogical Deference interv

Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by calculated, spectrophotometry	2.34	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.35 ^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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	IARYANA	
Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.55	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CCT (UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	24.83	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	26.38	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	0.94	RATIO	0.00 - 46.00
ALKALINE PHOSPI		95.56	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	20.97	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.37	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.06	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.31	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.76	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

INCREASED:

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





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INTERPRETATION



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Test Name	Value	Unit	Biological Reference interval

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 SI	GNIFICANCE:

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



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE	REPORTING DATE	: 24/Jan/2025 04:57PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interva
	KIDNI	EY FUNCTIO	N TEST (COMPLETE))
UREA: SERUM	ATE DEHYDROGENASE (GLDH)	17.38	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.86	mg/dL	0.40 - 1.20
BLOOD UREA NITR	OGEN (BUN): SERUM	8.12	mg/dL	7.0 - 25.0
BLOOD UREA NITR RATIO: SERUM by calculated, spe	COGEN (BUN)/CREATININE	9.44 ^L	RATIO	10.0 - 20.0
JREA/CREATININ	E RATIO: SERUM	20.21	RATIO	
JRIC ACID: SERUM		3.62	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		8.94	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE	RUM MATE, SPECTROPHOTOMETRY	2.43	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	145.9	mmol/L	135.0 - 150.0

CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)

by ISE (ION SELECTIVE ELECTRODE)

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE 90.3 (eGFR): SERUM

POTASSIUM: SERUM

INTERPRETATION:

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.

5

109.43

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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mmol/L

mmol/L

3.50 - 5.00

90.0 - 110.0

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by CALCULATED

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	CITY - HARYANA	
Test Name	V	/alue Unit	Biological Reference interval
ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	exia, high fever). a (e.g. ureter colostomy) hass (subnormal creatinine production) tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LEVELS a (BUN rises disproportionately more that superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation.	5:	otoxicosis, Cushing's syndrome, high protein diet, uropathy).
5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (< 7	creased urea synthesis. (urea rather than creatinine diffuses out imonemias (urea is virtually absent in bl of inappropiate antidiuretic harmone) du 10:1) WITH INCREASED CREATININE: upy (accelerates conversion of creatine to	ood). ue to tubular secretion of urea.	
2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO	eleases muscle creatinine). who develop renal failure. :		odologies,resulting in normal ratio when dehydrat
should produce an in 2. Cephalosporin ther	creased BUN/creatinine ratio). rapy (interferes with creatinine measure JLAR FILTERATION RATE:		
CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , 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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NAME	: Mrs. SHIVALI		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1733431
COLLECTED BY	:	REG. NO./LAB NO.	: 122501240015
REFERRED BY	:	REGISTRATION DATE	: 24/Jan/2025 11:19 AM
BARCODE NO.	: 12506662	COLLECTION DATE	: 24/Jan/2025 11:33AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 24/Jan/2025 04:57PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

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 INSTIT	UTE	REPORTING DATE	: 24/Jan/2025 04:37PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	32.4 ^L	μg/dL	37.0 - 145.0
UNSATURATED IR	ON BINDING CAPACITY (UIBC)	384.61 ^H	μg/dL	150.0 - 336.0

:SERUM	· · ·	001.01	1.67	
by FERROZINE, SPECTROPHOTOMETER	Y			
TOTAL IRON BINDING CAPACITY	(TIBC)	417.01	μg/dL	230 - 430
:SERUM				
by SPECTROPHOTOMETERY				
%TRANSFERRIN SATURATION: SI by CALCULATED, SPECTROPHOTOMETE		7.77 ^L	%	15.0 - 50.0
TRANSFERRIN: SERUM		2 <mark>96.08</mark>	mg/dL	200.0 - 350.0
by SPECTROPHOTOMETERY (FERENE)				
INTERPRETATION:-				
VARIABLES	ANEMIA OF CHRC	ONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
	Name alta D	a alexa a al	Dealersed	N a successful

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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PKR JAIN HEALTHCARE INSTITUTE

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	'E REP (DRTING DATE	: 24/Jan/2025 01:31PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	A CITY - HARYAN	A	
Test Name		Value	Unit	Biological Reference interva
Test Name		Value ENDOCRIN		Biological Reference interva
Test Name		ENDOCRIN		Biological Reference interva
Test Name TRIIODOTHYRONII by CMIA (CHEMILUMIN	тнуро	ENDOCRIN	DLOGY	Biological Reference interva 0.35 - 1.93
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S	THYRO NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN ID FUNCTION	DLOGY N TEST: TOTAL	U

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	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 (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.

TRIIODOTH	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		LATING 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	IARYANA	

Test Name		Value Unit		t	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 LI	EVELS 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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Test Name		Value	Unit	Biological Reference interval	
		VET	AMING		
	VITAM		AMINS (DROXY VITAMIN D3	}	
	VITAM DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)			DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0	
by CLIA (CHEMILUMIN INTERPRETATION:	DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	IIN D/25 HY 27.01 ^L	(DROXY VITAMIN D 3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
by CLIA (CHEMILUMIN <u>INTERPRETATION:</u> DEFI	DROXY VITAMIN D3): SERUM escence immunoassay)	IIN D/25 HY 27.01 ^L	(DROXY VITAMIN D: ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
by CLIA (CHEMILUMIN INTERPRETATION: DEFI INSUF	DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY) CIENT: FICIENT:	IIN D/25 HY 27.01 ^L < 20 21 - 29	A DROXY VITAMIN DS ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
by CLIA (CHEMILUMIN INTERPRETATION: DEFI INSUF PREFFERI	DROXY VITAMIN D3): SERUM escence immunoassay)	IIN D/25 HY 27.01 ^L	A DROXY VITAMIN DS ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	

conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure. 2.25-OH--Vitamin D represents the main body reservoir 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- hvdroxylase 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 ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CIT				
Test Name		IN B12/COBALAMIN	Biological Reference interva		
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	VITAMI ALAMIN: SERUM 262 ESCENT MICROPARTICLE IMMUNOASSAY)	IN B12/COBALAMIN pg/mL	200.0 - 1100.0		
VITAMIN B12/COB by cmia (chemilumin I <u>NTERPRETATION:-</u> INCREAS	VITAMI ALAMIN: SERUM 262 ESCENT MICROPARTICLE IMMUNOASSAY)	IN B12/COBALAMIN pg/mL DECREASED VITAMIN	200.0 - 1100.0		
VITAMIN B12/COE by CMIA (CHEMILUMIN I <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	VITAMI ALAMIN: SERUM 262 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C1.	IN B12/COBALAMIN pg/mL DECREASED VITAMIN Pregnancy	200.0 - 1100.0		
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	VITAMINALAMIN: SERUM 262 ESCENT MICROPARTICLE IMMUNOASSAY) 262 ED VITAMIN B12 1 nin C 1. gen 2.	IN B12/COBALAMIN pg/mL DECREASED VITAMIN Pregnancy DRUGS:Aspirin, Anti-convulsants,	200.0 - 1100.0		
VITAMIN B12/COE by CMIA (CHEMILUMIN I <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	VITAMIN: ALAMIN: 262 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C 1. gen 2. nin A 3.	IN B12/COBALAMIN pg/mL DECREASED VITAMIN Pregnancy	200.0 - 1100.0		
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	VITAMIN: SERUM 262 ESCENT MICROPARTICLE IMMUNOASSAY) 262 ED VITAMIN B12 1. nin C 1. gen 2. nin A 3. jury 4. e disorder 5.	IN B12/COBALAMIN pg/mL DECREASED VITAMIN Pregnancy DRUGS:Aspirin, Anti-convulsants, Ethanol Igestion	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 interva
		CLINICAL P	ATHOLOGY	
	URINE RO	UTINE & MICR	OSCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEV		30	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELL	OW	PALE YELLOW
	TANCE SPECTROPHOTOMETRY		011	THE TEEOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01 PK		1.002 - 1.030
,	TANCE SPECTROPHOTOMETRY			
<u>CHEMICAL EXAMI</u>	<u>NATION</u>			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		NEGATIVE	(-ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
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	(-10)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			NEGATIVE (-ve)
NITRITE		NEGATIVE	(-ve)	NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	NOT DETEC	TED EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
BLOOD		NEGATIVE	(-ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC [®] ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-vo)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-VC)
RED BLOOD CELLS		NEGATIVE	(-ve) /HPF	0 - 3





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NOT VALID FOR MEDICO LEGAL PURPOSE

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.)**



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-5	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		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 VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

*** End Of Report '



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