A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250014
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ГЕ	REPORTING DATE	: 25/Jan/2025 12:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HAF	RYANA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WEI	LINESS PANEL: 1.5	
	СОМР	LETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	13.6	gm/dL	12.0 - 16.0
RED BLOOD CELL (R	BC) COUNT CUSING, ELECTRICAL IMPEDENCE	4.41	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOLU		39	%	37.0 - 50.0
MEAN CORPUSCULA		88.4	KR fl	80.0 - 100.0
	R HAEMOGLOBIN (MCH) TOMATED HEMATOLOGY ANALYZER	30.8	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) TOMATED HEMATOLOGY ANALYZER	34.8	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV) TOMATED HEMATOLOGY ANALYZER	13.2	%	11.00 - 16.00
	TION WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	44	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		20.05	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE		26.43	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL				
	BY SF CUBE & MICROSCOPY	7630	/cmm	4000 - 11000
	<u>COCYTE COUNT (DLC)</u>			
	BY SF CUBE & MICROSCOPY	62	%	50 - 70
LYMPHOCYTES		31	%	20 - 40

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



: Mrs. SHVETA

NAME

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

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

NAME	: Mrs. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250014
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	ГUTE	REPORTING DATE	: 25/Jan/2025 12:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS		0 ^L	%	1 - 6
by FLOW CYTOMETR MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	7	70	2 - 12
BASOPHILS		0	%	0 - 1
	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTE	ROPHIL COUNT BY BY SF CUBE & MICROSCOPY	4731	/cmm	2000 - 7500
ABSOLUTE LYMPH	IOCYTE COUNT	2365 ^L	/cmm	800 - 4900
ABSOLUTE EOSIN		0 ^L	/cmm	40 - 440
ABSOLUTE MONO	CYTE COUNT	534	/cmm	80 - 880
by FLOW CYTOMETR ABSOLUTE BASOP	RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	THE COUNT RY BY SF CUBE & MICROSCOPY	0	/ cinin	0 - 110
	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	253000	/cmm	150000 - 450000
PLATELETCRIT (P		0.28	%	0.10 - 0.36
MEAN PLATELET		11	fL	6.50 - 12.0
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
by HYDRO DYNAMIC	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	83000	/cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	32.6	%	11.0 - 45.0
PLATELET DISTRI	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.7	%	15.0 - 17.0
•	JCTED ON EDTA WHOLE BLOOD			





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA					
AGE/ GENDER	: 44 YRS/FEMALE	PAT	IENT ID	: 1734519		
COLLECTED BY	:	REG	. NO./LAB NO.	: 122501250014		
REFERRED BY		RFG	ISTRATION DATE	: 25/Jan/2025 10:04	4 AM	
BARCODE NO.	: 12506686		LECTION DATE	: 25/Jan/2025 10:0		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI		ORTING DATE	: 25/Jan/2025 04:3'	7PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	SALA CITY - HARYAN	JA			
Test Name		Value	Unit	Biologica	l Reference interval	
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD		4.7	%	4.0 - 6.4		
			OGLOBIN (HBA1C %			
ESTIMATED AVERA by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	88.19	88.19 mg/dL		60.00 - 140.00	
INTERPRETATION:		ABETES ASSOCIATION				
	REFERENCE GROUP		YLATED HEMOGLOGIB	(HBAIC) in %		
	abetic Adults >= 18 years	DIZI	<5.7			
А	t Risk (Prediabetes)		5.7 - 6.4			
D	liagnosing Diabetes		>= 6.5			
		Cash of Th	Age > 19 Years	7.0		
Therapeutic goals for glycemic control		Goals of Th		< 7.0 >8.0		
		Actions Suggested: Age < 19 Years		20.0		
Therapeut			Ade < 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 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)



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE	PA	TIENT ID	: 1734519
COLLECTED BY	:	RE	G. NO./LAB NO.	: 122501250014
REFERRED BY	:	RE	GISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	CO	LLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	ITUTE RE I	PORTING DATE	: 25/Jan/2025 04:07PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	NTATION RATE (F	ESR)
	DIMENTATION RATE (ESR)	3	mm/1st l	hr 0 - 20
by RED CELL AGGRE	GATION BY CAPILLARY PHOTOMETRY			
	ic test because an elevated result -	often indicates the	presence of inflammation	on associated with infection, cancer and auto
immune disease, but	does not tell the health practition	er exactly where the	e inflammation is in the	body or what is causing it.
 An ESR can be affe as C-reactive protein 	cted by other conditions besides in	iflammation. For th	is reason, the ESR is typ	bically used in conjunction with other test suc
3. This test may also	be used to monitor disease activity	y and response to th	herapy in both of the at	pove diseases as well as some others, such as
systemic lupus erythe	ematosus			
	n with conditions that inhibit the r	normal sedimentati	on of red blood cells, su	ich as a high red blood cell count
(polycythaemia), sigr	nificantly high white blood cell cou	int (leucocytosis), a	and some protein abnor	malities. Some changes in red cell shape (su
as sickle cells in sickl	e cell anaemia) also lower the ESF	₹.		
NUTE.				

2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 4. Drugs such as devicent matching and units of two types of proteins and units of the temporary elevations.

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





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

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

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA				
AGE/ GENDER	: 44 YRS/FEMALE	PAT	IENT ID	: 1734519	
COLLECTED BY	:	REG	. NO./LAB NO.	: 122501250014	
REFERRED BY	:	REG	ISTRATION DATE	: 25/Jan/2025 10:04 AM	
BARCODE NO.	: 12506686	COL	LECTION DATE	: 25/Jan/2025 10:10AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE REP	ORTING DATE	: 25/Jan/2025 12:44PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYAN	IA		
Test Name		Value	Unit	Biological Reference int	erva
Test Name	CLINI	Value CAL CHEMISTRY		0	erva
Test Name	CLINI		/BIOCHEMIST	0	erva

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.





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. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250014
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE	REPORTING DATE	: 25/Jan/2025 12:44PM
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 ON		194.52	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)	100.05	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM	59.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		114.84	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		134.85 ^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		20.01	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	489.09	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	3.26	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE



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

NAME	: Mrs. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 12:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	- HARYANA	

Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.92	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.68 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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

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

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



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

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



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

NAME	: Mrs. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250014
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	REPORTING DATE	: 25/Jan/2025 12:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	SERUM	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	CT (UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	23.57	U/L	7.00 - 45.00
SGPT/ALT: SERUM		32.05	U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		0.74	RATIO	0.00 - 46.00
ALKALINE PHOSPH by PARA NITROPHEN PROPANOL	IATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	102.45	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	40.4	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.18 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.13	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		2.05 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE	Л	2.01 ^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)





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. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 12:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

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).

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



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA				
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519	
COLLECTED BY	LLECTED BY :		REG. NO./LAB NO.	: 122501250014	
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM	
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE	REPORTING DATE	: 25/Jan/2025 04:38PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - H	ARYANA		
Test Name		Value	Unit	Biological Reference interva	
	KIDNI	EY FUNCTI	ON TEST (COMPLETE))	
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	28.53	mg/dL	10.00 - 50.00	
CREATININE: SERU		0.95	mg/dL	0.40 - 1.20	
BLOOD UREA NITR by CALCULATED, SPE	OGEN (BUN): SERUM	13.33	mg/dL	7.0 - 25.0	
BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	14.03	RATIO	10.0 - 20.0	
UREA/CREATININI by CALCULATED, SPE		<mark>30.03</mark>	RATIO		
URIC ACID: SERUM by URICASE - OXIDAS		3.07	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.61	mg/dL	8.50 - 10.60	
•	RUM DATE, SPECTROPHOTOMETRY	2.77	mg/dL	2.30 - 4.70	
ELECTROLYTES SODIUM: SERUM by ISE (ION SELECTIV.		139	mmol/L	135.0 - 150.0	
POTASSIUM: SERUN by ISE (ION SELECTIV	M	4.37	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM	E ELECTRODE)	104.25	mmol/L	90.0 - 110.0	
	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	75.8			
	een 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.



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION D A	ATE : 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATI	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		
CLIENT CODE.	: NASIRPUR, HISSAR ROAD, AMBALA		
CLIENI ADDRESS	. NASIRFUR, HISSAR RUAD, AMDALA	CITT - HARTANA	
Test Name	١	/alue Uni	t Biological Reference interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam	exia, high fever). (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. and starvation.	S: an creatinine) (e.g. obstructive t of extracellular fluid). ood).	
 Phenacimide thera Rhabdomyolysis (r Muscular patients 	10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine t eleases muscle creatinine). who develop renal failure.	o creatinine).	
should produce an in			nodologies,resulting in normal ratio when dehydratio
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	



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 04:38PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

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



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

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





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

NAME	: Mrs. SHVETA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250014
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE	: 25/Jan/2025 10:10AM
LIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPO		REPORTING DATE	: 25/Jan/2025 04:38PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	60.1	μg/dL	37.0 - 145.0

by FERROZINE, SPECTROPHOTOMETRY			
UNSATURATED IRON BINDING CAPACITY (UIBC)	260.75	µg/dL	150.0 - 336.0
:SERUM			
by FERROZINE, SPECTROPHOTOMETERY			
TOTAL IRON BINDING CAPACITY (TIBC)	320.85	µg/dL	230 - 430
:SERUM			
by SPECTROPHOTOMETERY			
%TRANSFERRIN SATURATION: SERUM	18.73	%	15.0 - 50.0
by CALCULATED, SPECTROPHOTOMETERY (FERENE)			
TRANSFERRIN: SERUM	227.8	mg/dL	200.0 - 350.0
by SPECTROPHOTOMETERY (FERENE)		U	
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
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.





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

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



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

: Mrs. SHVETA				
: 44 YRS/FEMALE	PA	FIENT ID	: 1734519	
:	REG	G. NO./LAB NO.	: 122501250014	
:	REG	GISTRATION DATE	: 25/Jan/2025 10:04 AM	
: 12506686	COL	LECTION DATE	: 25/Jan/2025 10:10AM	
: P.K.R JAIN HEALTHCARE INSTITUT	ГЕ Rei	PORTING DATE	: 25/Jan/2025 04:49PM	
: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYA	NA		
	Value	Unit	Biological Reference interval	
	ENDOCRIN	OLOGY		
THYRO	ID FUNCTIO	N TEST: TOTAL		
IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	1.384	ng/mL	0.35 - 1.93	
ERUM ESCENT MICROPARTICLE IMMUNOASSAY)	10.11	µgm/dL	4.87 - 12.60	
TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	0.049 ^L	µIU/mL	0.35 - 5.50	
ASENSITIVE				
]	: : : : : 12506686 : P.K.R JAIN HEALTHCARE INSTITUT : NASIRPUR, HISSAR ROAD, AMBAL THYRO IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	: 44 YRS/FEMALE PAT : 44 YRS/FEMALE PAT : REG : 125066886 COD : P.K.R JAIN HEALTHCARE INSTITUTE RED : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYA Value Value ENDOCRIN THYROID FUNCTIO IE (T3): SERUM 1.384 ESCENT MICROPARTICLE IMMUNOASSAY) ERUM 10.11 ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM 0.049 ^L	EARLY SALE PATIENT ID : 44 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. REG. NO./LAB NO. : I2506686 COLLECTION DATE : 12506686 COLLECTION DATE : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit ENDOCRINOLOGY Intervention of the provide the provided the	

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





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

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





▼0171-2532620, 8222896961 **■** pkrjainhealthcare@gmail.com

NAME	: Mrs. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 04:49PM
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	
	RECO	ommendations of tsh Li	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, 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



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

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





NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA				
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1734519	
COLLECTED BY	:		REG. NO./LAB NO.	: 12250125001	4
REFERRED BY	:		REGISTRATION DATE	: 25/Jan/2025 10	:04 AM
BARCODE NO.	: 12506686		COLLECTION DATE		:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE	REPORTING DATE	: 25/Jan/2025 05	:23PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - H	ARYANA		
Test Name		Value	Unit	Biologi	cal Reference interval
ESTRADIOL (E2): S		182	pg/mL		E FOLLICULAR PHASE:
		ESTR	ADIOL (E2)		
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOA	SSAY)		19.5 - 1 FFMAL	44.2 E MID CYCLE PHASE:
				63.9 - 3	
					E PRE OVULATORY
					: 136.0 - 251.0 E LUTEAL PHASE: 55.8 -
				214.2	E LUTEALTHASE, JJ.0 -
				POST M	IENOPAUSAL:< 50.0
INTEPRETATION:					
	L FACTORS AND PREGNANCY	UNITS		NGE	
	nal Contraceptives	pg/mL		- 95.0	
Ist Trime	ester (0 – 12 Weeks)	pg/mL	38.0 -	· 3175.0	1

	••••••	
Hormonal Contraceptives	pg/mL	15.0 - 95.0
1st Trimester (0 – 12 Weeks)	pg/mL	38.0 - 3175.0
2nd Trimester (13 – 28 Weeks)	pg/mL	678.0 - 16633.0
3rd Trimester (29 – 40 Weeks)	pg/mL	43.0 - 33781.0
Post Menopausal	Pg/mL	< 50.0
MALES:	pg/mL	< 40.0

1. Estrogens are involved in development and maintenance of the female phenotype,germ cell maturation,and pregnancy. They also are important for many other, nongender-specific processes, including growth, nervous system maturation, bone metabolism/remodeling, and endothelial responsiveness.

2. E2 is produced primarily in ovaries and testes by aromatization of testosterone.

3. Small amounts are produced in the adrenal glands and some peripheral tissues, most notably fat. E2 levels in premenopausal women fluctuate during the menstrual cycle.

4. They are lowest during the early follicular phase. E2 levels then rise gradually until 2 to 3 days before ovulation, at which stage they start to increase much more rapidly and peak just before the ovulation-inducing luteinizing hormone (LH)/follicle stimulating hormone (FSH) surge at 5 to 10 times the early follicular levels. This is followed by a modest decline during the ovulatory phase. E2 levels then increase again gradually until the midpoint of the luteal phase and thereafter decline to trough, early follicular levels.

INDICATIONS FOR ASSAY: -

- 1. Evaluation of hypogonadism and oligo-amenorrhea in females.
- 2. Assessing ovarian status, including follicle development, for assisted reproduction protocols (eg, in vitro fertilization)
- 3. In conjunction with lutenizing hormone measurements, monitoring of estrogen replacement therapy in hypogonadal premenopausal women
- 4. Evaluation of feminization, including gynecomastia, in males.
- 5. Diagnosis of estrogen-producing neoplasms in males, and, to a lesser degree, females
- 6. As part of the diagnosis and work-up of precocious and delayed puberty in females, and, to a lesser degree, males
- 7. As part of the diagnosis and work-up of suspected disorders of sex steroid metabolism, eg:aromatase deficiency and 17 alpha-hydroxylase





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

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

NOT VALID FOR MEDICO LEGAL PURPOSE





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHVETA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1734519
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250014
REFERRED BY	:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 05:23PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

Test Name	Value	Unit	Biological Reference interval

deficiency

8. As an adjunct to clinical assessment, imaging studies and bone mineral density measurement in the fracture risk assessment of postmenopausal women, and, to a lesser degree, older men

9. Monitoring low-dose female hormone replacement therapy in post-menopausal women

10. Monitoring antiestrogen therapy (eg, aromatase inhibitor therapy).

CAUSES FOR INCREASED E2 LEVELS:

1. High androgen levels caused by tumors or androgen therapy (medical or sport performance enhancing), with secondary elevations in E1 and E2 due to aromatization

2. Obesity with increased tissue production of E1

3. Decreased E1 and E2 clearance in liver disease

4. Estrogen producing tumors

5. Estrogen Ingestion



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

AGE/ GENDER					
AGE/ GENDEK	: 44 YRS/FEMALE	PAT	IENT ID	: 173451	9
COLLECTED BY	:	REG	. NO./LAB NO.	: 12250	1250014
REFERRED BY	:	REG	ISTRATION DATE	: 25/Jan/	2025 10:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE		: 25/Jan/2025 10:10AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE REP	ORTING DATE	: 25/Jan/	2025 01:01PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMH	BALA CITY - HARYAN	JA		
Test Name		Value	Unit		Biological Reference interval
	VITAN	VITAM		1	
		VITAM	INS		
	DROXY VITAMIN D3): SERUM		INS OXY VITAMIN D3 ng/mL		DEFICIENCY: < 20.0
		AIN D/25 HYDR	OXY VITAMIN D3		DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHEMILUMINES)	DROXY VITAMIN D3): SERUM SCENCE IMMUNOASSAY)	AIN D/25 HYDR 19.4 ^L	OXY VITAMIN D3 ng/mL		INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINE) INTERPRETATION: DEFICI	DROXY VITAMIN D3): SERUM SCENCE IMMUNOASSAY)	AIN D/25 HYDR 19.4^L < 20	OXY VITAMIN D3 ng/mL	/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINES)	DROXY VITAMIN D3): SERUM SCENCE IMMUNOASSAY) IENT: ICIENT:	AIN D/25 HYDR 19.4 ^L	OXY VITAMIN D3 ng/mL		INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0

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.



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. SHVETA				
AGE/ GENDER	: 44 YRS/FEMALE	PATI	ENT ID	: 1734519	
COLLECTED BY	:	REG.	NO./LAB NO.	: 1225012500	14
REFERRED BY	:	REGIS	STRATION DATE	: 25/Jan/2025 1	0:04 AM
BARCODE NO.	: 12506686	COLLECTION DATE		: 25/Jan/2025 1	0:10AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTI	E REPO	RTING DATE	: 25/Jan/2025 0	1:01PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA				
Test Name		/alue AMIN B12/CO	Unit DBALAMIN	Biolog	gical Reference interva
VITAMIN B12/COE	VITA				gical Reference interva - 1100.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM	AMIN B12/CC 225	BALAMIN	200.0	- -
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	AMIN B12/CO 225 1.Pregnancy	DBALAMIN pg/mL DECREASED VITAMIN	200.0	- -
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estrog	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 Din C Jgen	AMIN B12/CO 225 1.Pregnancy 2.DRUGS:Aspir	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants,	200.0	- -
VITAMIN B12/COE 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 hin C gen hin A	AMIN B12/CO 225 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants, ion	200.0	- -
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estro 3.Ingestion of Vitam 4.Hepatocellular in	VITA ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 Din C Jgen Din A Jury	AMIN B12/CO 225 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants, ion re Harmones	200.0	- -
VITAMIN B12/COE 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 Din C Jgen Din A Jury	AMIN B12/CO 225 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants, ion re Harmones sis	200.0	- -

3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the lieum and returning it to the liver; very little is excreted. 4. Vitamin B12 deficiency may be due to lack of IE secretion by dastric mucosa (eq. dastrectomy, dastric atrophy) or intestinal malabsorption (i

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)



: Mrs. SHVETA

NAME

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. SHVETA				
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT	ID	: 1734519	
COLLECTED BY	: REG. NO./I		'LAB NO.	: 122501250014	
REFERRED BY	:	REGISTR	ATION DATE	: 25/Jan/2025 10:04 AM	
BARCODE NO.	: 12506686	COLLECT	ION DATE	: 25/Jan/2025 10:10AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	TITUTE REPORTI	NG DATE	: 25/Jan/2025 12:44PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	OAD, AMBALA CITY - HARYANA			
Test Name		Value	Unit	Biological Reference interva	
		CLINICAL PATHO	LOGY		
	URINE RO	UTINE & MICROSCO	PIC EXAMINA	ATION	
PHYSICAL EXAMIN	ATION				
QUANTITY RECIEVE	D ANCE SPECTROPHOTOMETRY	25	ml		
COLOUR	ANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW	
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		TURBID		CLEAR	
SPECIFIC GRAVITY		1.02 PK R		1.002 - 1.030	
by DIP STICK/REFLECT CHEMICAL EXAMIN	ANCE SPECTROPHOTOMETRY				
REACTION	ANCE SPECTROPHOTOMETRY	ACIDIC			
PROTEIN		NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLECT SUGAR	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY				
pH by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5	
BILIRUBIN	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)	
NITRITE	ANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)	
UROBILINOGEN	ANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0	
KETONE BODIES	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)	
BLOOD		NEGATIVE (-ve)		NEGATIVE (-ve)	
ASCORBIC ACID by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)	
MICROSCOPIC EXA RED BLOOD CELLS		NEGATIVE (-ve)	/HPF	0 - 3	



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE



A PIONEER DIAGNOSTIC CENTRE

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

: Mrs. SHVETA		
: 44 YRS/FEMALE	PATIENT ID	: 1734519
:	REG. NO./LAB NO.	: 122501250014
:	REGISTRATION DATE	: 25/Jan/2025 10:04 AM
: 12506686	COLLECTION DATE	: 25/Jan/2025 10:10AM
: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Jan/2025 12:44PM
: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	ARYANA	
Value	Unit	Biological Reference interval
	: 44 YRS/FEMALE : : : 12506686 : P.K.R JAIN HEALTHCARE INSTITUTE : NASIRPUR, HISSAR ROAD, AMBALA CITY - H	 : 44 YRS/FEMALE : 44 YRS/FEMALE : REG. NO./LAB NO. <li: date<="" li="" registration=""> : 125066866 : COLLECTION DATE : P.K.R JAIN HEALTHCARE INSTITUTE : REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA </li:>

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	8-10	/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



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

