A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. SUNNY KUMAR			
AGE/ GENDER	: 30 YRS/MALE	РАТ	TENT ID	: 1769383
COLLECTED BY	:	REG	. NO./LAB NO.	: 122502250003
REFERRED BY	:	REG	ISTRATION DATE	: 25/Feb/2025 08:39 AM
BARCODE NO.	: 12507213	COL	LECTION DATE	: 25/Feb/2025 08:50AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ТЕ Rep	ORTING DATE	: 25/Feb/2025 01:49PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAI	NA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WELLN	IESS PANEL: 1.5	
	СОМР	LETE BLOOI) COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	14.1	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT	4.8	Millions/cr	mm 3.50 - 5.00
	UTOMATED HEMATOLOGY ANALYZER	40.4	%	40.0 - 54.0
	UTOMATED HEMATOLOGY ANALYZER	84	fL	80.0 - 100.0
by CALCULATED BY A	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.4	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	34.9	g/dL	32.0 - 36.0
by CALCULATED BY A	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.7	%	11.00 - 16.00
by CALCULATED BY A	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	44.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.5	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INE by CALCULATED		24	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE				
•	BY SF CUBE & MICROSCOPY	5430	/cmm	4000 - 11000
	<u>UCOCYTE COUNT (DLC)</u>			
	/ BY SF CUBE & MICROSCOPY	52	%	50 - 70
LYMPHOCYTES		37	%	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



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Test Name		Value	Unit	Biological Reference interval
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
	OCYTES (WBC) COUNT	0004		0000 7500
ABSOLUTE NEUTR	OPHIL COUN I Y BY SF CUBE & MICROSCOPY	2824	/cmm	2000 - 7500
ABSOLUTE LYMPH	OCYTE COUNT Y BY SF CUBE & MICROSCOPY	2009 ^L	/cmm	800 - 4900
ABSOLUTE EOSING		217	/cmm	40 - 440
ABSOLUTE MONOC		380	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	0	/	0 - 110
ABSOLUTE BASOP	HIL COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND (DTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT		170000	/cmm	150000 - 450000
PLATELETCRIT (PC	FOCUSING, ELECTRICAL IMPEDENCE	0.2	%	0.10 - 0.36
by HYDRO DYNAMÌC F	OCUSING, ELECTRICAL IMPEDENCE		10	
MEAN PLATELET V	OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC)	64000	/cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	37.6	%	11.0 - 45.0
PLATELET DISTRIE	BUTION WIDTH (PDW)	16.4	%	15.0 - 17.0
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HA	ARYANA		
Test Name		Value	Unit	Biologic	al Reference interval
GLYCOSYLATED HA WHOLE BLOOD	AEMOGLOBIN (HbA1c):	4 .9	AEMOGLOBIN (HBA1) %	4.0 - 6.4	
	EMOGLOBIN (HbA1c):	4.9	%	4.0 - 6.4	
	RMANCE LIQUID CHROMATOGRAPHY)				
	GE PLASMA GLUCOSE	93.93	mg/dL	60.00 - 1	40.00
	RMANCE LIQUID CHROMATOGRAPHY)				
<u>INTERPRETATION:</u>					
	AS PER AMERICAN I	DIABETES ASSOC	CIATION (ADA):		7
	REFERENCE GROUP		GLYCOSYLATED HEMOGLOGIB	(HBAIC) in %	
Non di	abetic Adults >= 18 years		<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
D	liagnosing Diabetes		>= 6.5		
			Age > 19 Years		4
T 1			s of Therapy:	< 7.0	4
Therapeut	ic goals for glycemic control	Actio	ns Suggested:	>8.0	4
			Age < 19 Years		4
		Goa	I of therapy:	<7.5	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AI	MBALA CITY - HARYAN	JA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	ROCYTE SEDIMEN	TATION RATE (ES	R)
ERYTHROCYTE SEI	DIMENTATION RATE (ESR)	3	mm/1st hr	0 - 20
	GATION BY CAPILLARY PHOTOMET	RY		
immune disease, but	does not tell the health practitic	oner exactly where the	inflammation is in the bo	associated with infection, cancer and auto ody or what is causing it. ally used in conjunction with other test suc
as C-reactive protein			5.	
 This test may also systemic lupus erythe 		ity and response to the	erapy in both of the abov	ve diseases as well as some others, such as
CONDITION WITH LO	N ESR			
(polycythaemia), sigr as sickle cells in sickl	n with conditions that inhibit the nificantly high white blood cell co e cell anaemia) also lower the E	ount (leucocytosis), ar		a as a high red blood cell count alities. Some changes in red cell shape (su
NOTE: 1. ESR and C - reactiv	e protein (C-RP) are both marker	s of inflammation.		
2. Generally, ESR doe	s not change as rapidly as does (CRP, either at the start	of inflammation or as it	resolves.
 UKP IS NOT affected If the ESR is elevat 	by as many other factors as is ES ed, it is typically a result of two t	bk, making it a better m types of proteins, globi	arker of inflammation.	
5. Women tend to ha	ve a higher ESR, and menstruation	on and pregnancy can d	ause temporary elevatio	ns.

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 ADDRESS	: NASIRPUR, HISSAR ROAD,	AMBALA CITY - HAR	RYANA		
Test Name		Value	Unit	Biological R	eference interva
	CLIN	ICAL CHEMIS	FRY/BIOCHEMIST	RY	
		GLUCOSE	FASTING (F)		
GLUCOSE FASTING	(F): PLASMA E - PEROXIDASE (GOD-POD)	94.34	mg/dL		100.0 IC: 100.0 - 125.0
2				DIABETIC: >	-0R = 126.0

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	RYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		192.81	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	SERUM PHATE OXIDASE (ENZYMATIC)	191.29 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	DL (DIRECT): SERUM	41.28	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO	L: SERUM ECTROPHOTOMETRY	113.27	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 CHOLES' by calculated, spe	TEROL: SERUM ECTROPHOTOMETRY	151.53 ^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	OL: SERUM ECTROPHOTOMETRY	38.26	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		576.91	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM ECTROPHOTOMETRY	4.67 ^H	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 Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by calculated, spectrophotometry	2.74	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	4.63	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	N TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	SERUM PECTROPHOTOMETRY	0.59	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.36	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	45.54 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	70.17 ^H	KR U/L	0.00 - 49.00
AST/ALT RATIO: SI	ERUM	0.65	RATIO	0.00 - 46.00
ALKALINE PHOSPH		104.18	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	60.51 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.51	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		1.9 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		2.37 ^H	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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|--|

DECREASED:

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

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

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



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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTI	ON TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMA	ATE DEHYDROGENASE (GLDH)	24.79	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPECT		1.06	mg/dL	0.40 - 1.40
BLOOD UREA NITRO	DGEN (BUN): SERUM CTROPHOTOMETRY	11.58	mg/dL	7.0 - 25.0
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPEC	OGEN (BUN)/CREATININE	10.92	RATIO	10.0 - 20.0
UREA/CREATININE	RATIO: SERUM	23.39	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE	PEROXIDASE	3.65	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	9.35	mg/dL	8.50 - 10.60
	RUM ATE, SPECTROPHOTOMETRY	2.85	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE	ELECTRODE)	142.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE	-	4.91	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE	ELECTRODE)	106.57	mmol/L	90.0 - 110.0

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE 96.8 (eGFR): 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.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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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
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal creatinine production) tetracycline, glucocorticoids)		
DECREASED RATIO (< 1. Acute tubular necr	20:1) WITH ELEVATED CREATININE LEVELS: a (BUN rises disproportionately more tha superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis.		pathy).
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam	20:1) WITH ELEVATED CREATININE LEVELS: a (BUN rises disproportionately more tha superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation.	n creatinine) (e.g. obstructive urop of extracellular fluid). pod).	oathy).

should produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR 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	G4 Severe decrease in GFR		
G5	Kidney failure	<15	





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A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mr. SUNNY KUMAR				
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1769383		
COLLECTED BY	:	REG. NO./LAB NO.	: 122502250003		
REFERRED BY	:	REGISTRATION DATE	: 25/Feb/2025 08:39 AM		
BARCODE NO.	: 12507213	COLLECTION DATE	: 25/Feb/2025 08:50AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Feb/2025 04:02PM		
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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Test Name	Value	Unit	Biological Reference interva
CLIENT ADDRESS	: NASIRPUR. HISSAR ROAD. AMBALA CITY -]		. 20/ 1 CD/ 2020 00.401 W
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Feb/2025 03:48PM
BARCODE NO.	: 12507213	COLLECTION DATE	: 25/Feb/2025 08:50AM
REFERRED BY	:	REGISTRATION DATE	: 25/Feb/2025 08:39 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 122502250003
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1769383
NAME	: Mr. SUNNY KUMAR		

	VADIADIES	ANENALA OF CUDOL		IDON DEFICIENCY ANEMIA	THALACCENTIA ~/R TRAIT
<u> </u>	NTERPRETATION:-				
	RANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)		262.05	mg/dL	200.0 - 350.0
	by CALCULATED, SPECTROPHOTOMETE		N Pk	R	
	ERUM by spectrophotometery STRANSFERRIN SATURATION: SI	FRUM	21.24	%	15.0 - 50.0
Т	by FERROZINE, SPECTROPHOTOMETER OTAL IRON BINDING CAPACITY		369.09	µg/dL	230 - 430
	SERUM	AFACITT (UIBC)	290.09	µg/dL	150.0 - 550.0
	by FERROZINE, SPECTROPHOTOMETRY NSATURATED IRON BINDING CA		290.69	ug/dI	150.0 - 336.0
I	RON: SERUM		78.4	μg/dL	59.0 - 158.0

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 CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	TE REPOR '	FING DATE	: 25/Feb/2025 01:49PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	A CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interva
Test Name		Value ENDOCRINOI		Biological Reference interva
Test Name			OGY	Biological Reference interva
TRIIODOTHYRONII	THYRO	ENDOCRINOI	OGY	Biological Reference interva 0.35 - 1.93
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S	THYRO NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINOI ID FUNCTION 1	.OGY TEST: TOTAL	U
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	THYRO NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINOI ID FUNCTION 1 1.27	.OGY TEST: TOTAL ng/mL	0.35 - 1.93

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.

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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NAME	: Mr. SUNNY KUMAR		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1769383
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REFERRED BY	:	REGISTRATION DATE	: 25/Feb/2025 08:39 AM
BARCODE NO.	: 12507213	COLLECTION DATE	: 25/Feb/2025 08:50AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Feb/2025 01:49PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	ARYANA	

Test Name		Value Unit		Biological Reference interva			
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	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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - H	IARYANA	
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
	VITAM	IN D/25 I	HYDROXY VITAMIN D	3
	DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	9.57 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0

INTERPRETATION:

<u>INTERPRETATION:</u>		
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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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.)



SUFFICIENCY: 30.0 - 100.0

TOXICITY: > 100.0

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BARCODE NO.	: 12507213	COLLECTION DATE	: 25/Feb/2025 08:50AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 25/Feb/2025 06:18PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CIT	'Y - HARYANA	
Test Name		IN B12/COBALAMIN	Biological Reference interva
	VITAM	IN B12/COBALAMIN	Ū
VITAMIN B12/COE by CMIA (CHEMILUMIN	VITAM	IN B12/COBALAMIN	Biological Reference interva
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	VITAM ALAMIN: SERUM 251 ESCENT MICROPARTICLE IMMUNOASSAY)	IN B12/COBALAMIN .3 pg/mL	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	VITAM ALAMIN: SERUM 251 escent microparticle immunoassay) ED VITAMIN B12	IN B12/COBALAMIN .3 pg/mL DECREASED VITAM	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	VITAM ALAMIN: SERUM 251 escent microparticle immunoassay) ED VITAMIN B12 nin C 1.	IN B12/COBALAMIN .3 pg/mL	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan	ALAMIN: SERUM 251 ESCENT MICROPARTICLE IMMUNOASSAY) 251 ED VITAMIN B12 1 nin C 1 gen 2	IN B12/COBALAMIN .3 pg/mL DECREASED VITAM Pregnancy	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	VITAM ALAMIN: SERUM 251 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C 1. gen 2. nin A 3.	IN B12/COBALAMIN .3 pg/mL DECREASED VITAM Pregnancy DRUGS:Aspirin, Anti-convulsant	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	VITAM ALAMIN: SERUM 251 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C 1. gen 2. nin A 3. jury 4.	IN B12/COBALAMIN .3 pg/mL DECREASED VITAM Pregnancy DRUGS:Aspirin, Anti-convulsant Ethanol Igestion	200.0 - 1100.0

excreted. 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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interva
		CLINICAL PATH	OLOGY	
	URINE RO	UTINE & MICROSC	OPIC EXAMINA	ATION
PHYSICAL EXAMIN				
QUANTITY RECIEV	ED TANCE SPECTROPHOTOMETRY	30	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
•	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02 PKR		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMI	NATION			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC SUGAR	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
рН		5.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	NOT DETECTED	EU/dL	0.2 - 1.0
-	TANCE SPECTROPHOTOMETRY			
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
BLOOD		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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NOT VALID FOR MEDICO LEGAL PURPOSE



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

reservanie	Value	CIIIC	biological weier ence meet var
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	3-4	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	ABSENT
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			× ,
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			

*** End Of Report



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