A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. TIRLOKI NATH			
AGE/ GENDER	: 65 YRS/MALE]	PATIENT ID	: 1581919
COLLECTED BY	:]	REG. NO./LAB NO.	: 122408160001
REFERRED BY	:]	REGISTRATION DATE	: 16/Aug/2024 08:09 AM
BARCODE NO.	: 12504159	(COLLECTION DATE	: 16/Aug/2024 08:29AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE	REPORTING DATE	: 16/Aug/2024 12:45PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HAF	RYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WEI	LNESS PANEL: 1.5	
	CON	MPLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB))	11.9 ^L	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE	BC) COUNT Focusing, electrical impedence	5.5 ^H	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUN		35.8 ^L	%	40.0 - 54.0
MEAN CORPUSCULA		65.1 ^L	KR fl	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	21.6 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	33.1	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	16.2 ^H	%	11.00 - 16.00
RED CELL DISTRIBUT	TON WIDTH (RDW-SD)	40.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		11.84	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13
GREEN & KING INDE	X	19.14	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>S (WBCS)</u>			INON DEFICIENCE ANEIMIA. 203
	Y BY SF CUBE & MICROSCOPY	4660	/cmm	4000 - 11000
DIFFERENTIAL LEUCO	<u> DCYTE COUNT (DLC)</u>			
NEUTROPHILS by flow cytometr [*]	Y BY SF CUBE & MICROSCOPY	64	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	19 ^L	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	6	%	1 - 6





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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

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Test Name		Value	Unit	Biological Reference interval
	BY SF CUBE & MICROSCOPY	11	%	2 - 12
BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE NEUTROPI	HIL COUNT	2982	/cmm	2000 - 7500
ABSOLUTE LYMPHOC	BY SF CUBE & MICROSCOPY YTE COUNT BY SF CUBE & MICROSCOPY	885 ^L	/cmm	800 - 4900
ABSOLUTE EOSINOPH		280	/cmm	40 - 440
ABSOLUTE MONOCYT		513	KR /cmm	80 - 880
ABSOLUTE BASOPHIL by flow cytometry	COUNT by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND OTH	ER PLATELET PREDICTIVE MARKER	<u>RS.</u>		
PLATELET COUNT (PL		131000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.14	%	0.10 - 0.36
MEAN PLATELET VOL		10	fL	6.50 - 12.0
PLATELET LARGE CELL by HYDRO DYNAMIC FO	_ COUNT (P-LCC) DCUSING, ELECTRICAL IMPEDENCE	46000	/cmm	30000 - 90000
PLATELET LARGE CELI by hydro dynamic fo	L RATIO (P-LCR) DCUSING, ELECTRICAL IMPEDENCE	35.1	%	11.0 - 45.0
-	ION WIDTH (PDW) DCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD	15.6	%	15.0 - 17.0



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE RI	EPORTING DATE	: 16/Aug/2024 04:18PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEMO		LYCOSYLATED HAEN	MOGLOBIN (HBA1C) %	4.0 - 6.4
WHOLE BLOOD	IANCE LIQUID CHROMATOGRAPHY)	5.0	70	4.0 - 0.4
ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION:	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (AD	DA):	
RE	FERENCE GROUP		ED HEMOGLOGIB (HBAIC) ir	1 %
Non diab	etic Adults >= 18 years		<5.7	
At R	Risk (Prediabetes)		5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
			Age > 19 Years	
		Goals of Therap		
ſherapeutic	goals for glycemic control	Actions Suggeste		
			Age < 19 Years	
1		Goal of therapy	y: <7.5	

COMMENTS:

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

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

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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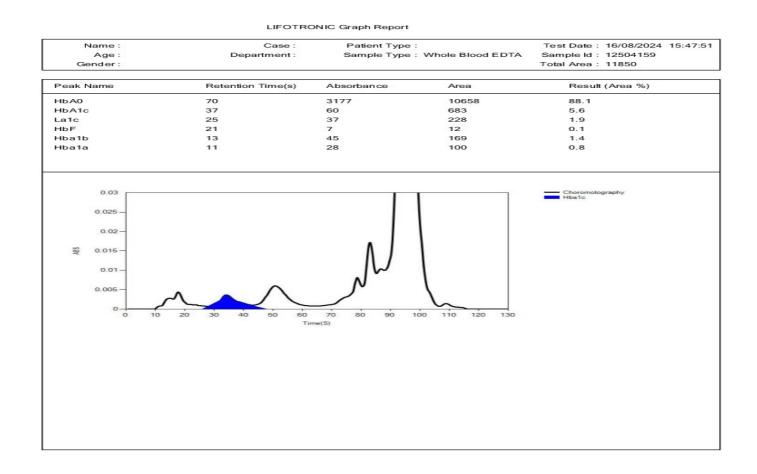
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Test Name	Value	Unit	Biological Reference interval		







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	CITY - HARYANA alue TE SEDIMENTATION	AB NO. : 12 ION DATE : 16 N DATE : 16 DATE : 16 DATE : 16 Unit	81919 22408160001 3/Aug/2024 08:09 AM 3/Aug/2024 08:29AM 3/Aug/2024 04:33PM Biological Reference interval
AIN HEALTHCARE INSTITUTE PUR, HISSAR ROAD, AMBALA V ERYTHROCY DN RATE (ESR) 8 OMATED METHOD	REGISTRATI COLLECTION REPORTING CITY - HARYANA alue TE SEDIMENTATION	ION DATE : 16 N DATE : 16 DATE : 16 Unit	5/Aug/2024 08:09 AM 5/Aug/2024 08:29AM 5/Aug/2024 04:33PM
AIN HEALTHCARE INSTITUTE PUR, HISSAR ROAD, AMBALA V ERYTHROCY DN RATE (ESR) 8 OMATED METHOD	COLLECTION REPORTING CITY - HARYANA alue TE SEDIMENTATION	N DATE : 16 : DATE : 16 Unit	5/Aug/2024 08:29AM 5/Aug/2024 04:33PM
AIN HEALTHCARE INSTITUTE PUR, HISSAR ROAD, AMBALA V ERYTHROCY DN RATE (ESR) 8 OMATED METHOD	REPORTING CITY - HARYANA alue TE SEDIMENTATION	DATE : 16	5/Aug/2024 04:33PM
PUR, HISSAR ROAD, AMBALA (V ERYTHROCY DN RATE (ESR) 8 OMATED METHOD	CITY - HARYANA alue TE SEDIMENTATION	Unit	
V ERYTHROCY ON RATE (ESR) 8 OMATED METHOD	alue TE SEDIMENTATION		Biological Reference interval
ERYTHROCY DN RATE (ESR) 8 OMATED METHOD	TE SEDIMENTATION		Biological Reference interval
DN RATE (ESR) 8 OMATED METHOD		N RATE (ESR)	
OMATED METHOD	1		
		mm/1st hr	0 - 20
high white blood cell count (leu emia) also lower the ESR. (C-RP) are both markers of infla nge as rapidly as does CRP, eith y other factors as is ESR, makin bically a result of two types of r ESR, and menstruation and p yldopa, oral contraceptives, p	armation. ammation. her at the start of inflan ng it a better marker of proteins, globulins or fi regnancy can cause ten	protein abnormaliti nmation or as it res inflammation. ibrinogen. nporary elevations	es. Šome changes in red cell shape (su olves.
r r r r r	nditions that inhibit the norma high white blood cell count (let lemia) also lower the ESR. (C-RP) are both markers of infla nge as rapidly as does CRP, eith ny other factors as is ESR, makit pically a result of two types of ar ESR, and menstruation and p	nditions that inhibit the normal sedimentation of red high white blood cell count (leucocytosis), and some lemia) also lower the ESR. (C-RP) are both markers of inflammation. nge as rapidly as does CRP, either at the start of inflar ny other factors as is ESR, making it a better marker of pically a result of two types of proteins, globulins or f er ESR, and menstruation and pregnancy can cause ter hyldopa, oral contraceptives, penicillamine procainam	nditions that inhibit the normal sedimentation of red blood cells, such as high white blood cell count (leucocytosis), and some protein abnormaliti lemia) also lower the ESR. (C-RP) are both markers of inflammation. nge as rapidly as does CRP, either at the start of inflammation or as it reso ny other factors as is ESR, making it a better marker of inflammation . pically a result of two types of proteins, globulins or fibrinogen. er ESR, and menstruation and pregnancy can cause temporary elevations. nyldopa, oral contraceptives, penicillamine procainamide, theophylline, a



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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AGE/ GENDER : COLLECTED BY :	65 YRS/MALE		PATIENT ID	: 1581919
COLLECTED BY :				. 1301313
			REG. NO./LAB NO.	: 122408160001
REFERRED BY :			REGISTRATION DATE	: 16/Aug/2024 08:09 AM
BARCODE NO.	12504159		COLLECTION DATE	: 16/Aug/2024 08:29AM
CLIENT CODE. :	P.K.R JAIN HEALTHCARE INS	TITUTE	REPORTING DATE	: 16/Aug/2024 11:06AM
CLIENT ADDRESS :	NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HAI	RYANA	
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIS	TRY/BIOCHEMISTR	Y
			FASTING (F)	
GLUCOSE FASTING (F): F by GLUCOSE OXIDASE - F		86	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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





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AGE/ GENDER : 65 YRS/N	IALE	PATIENT ID	: 1581919
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BARCODE NO. : 1250415	9	COLLECTION DATE	: 16/Aug/2024 08:29AM
CLIENT CODE. : P.K.R JAI	N HEALTHCARE INSTITUTE	REPORTING DATE	: 16/Aug/2024 12:45PM
CLIENT ADDRESS : NASIRPU	R, HISSAR ROAD, AMBALA CITY -	HARYANA	
Test Name	Value	Unit	Biological Reference interval
	LIPID I	PROFILE : BASIC	
CHOLESTEROL TOTAL: SERUM	173.24	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP			BORDERLINE HIGH: 200.0 - 239.0
TRIGLYCERIDES: SERUM	100.13	mg/dL	HIGH CHOLESTEROL: > OR = 240. OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDAS		Ing/uL	BORDERLINE HIGH: 150.0 - 199.0
			HIGH: 200.0 - 499.0
			VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SE by SELECTIVE INHIBITION	RUM 65.72	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 -
by SELECTIVE INFIDITION			60.0
			HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM	87.49	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTO	METRY		ABOVE OPTIMAL: 100.0 - 129.0
			BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
			VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUN	1 107.52	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTO	METRY		ABOVE OPTIMAL: 130.0 - 159.0
			BORDERLINE HIGH: 160.0 - 189.0
			HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM	20.03	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPHOTO		-	
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTO	446.61 METRY	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERU		RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTO	METRY		AVERAGE RISK: 4.50 - 7.0
LDL/HDL RATIO: SERUM	1.33	RATIO	HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0
by CALCULATED, SPECTROPHOTO		UTAN	MODERATE RISK: 3.10 - 6.0
			HIGH RISK: > 6.0

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Page 7 of 20

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Test Name	Value	Unit	Biological Reference interval		

Test Name	value	onnt	biological Reference lifter val
TRIGLYCERIDES/HDL RATIO: SERUM	1.52 ^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



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Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: SI	ERUM	0.74	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SF	PECTROPHOTOMETRY		3	ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.26	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	25.52	U/L	7.00 - 45.00
SGPT/ALT: SERUM		<mark>24.13</mark>		0.00 - 49.00
	RIDOXAL PHOSPHATE	1.0/		
AST/ALT RATIO: SER by CALCULATED, SPE		1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		95.78	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	22.86	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO		7.07	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol G	REEN	4.41	gm/dL	3.50 - 5.50

by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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:

GLOBULIN: SERUM

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5

2.66

1.66





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2.30 - 3.50

1.00 - 2.00

gm/dL

RATIO



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Test Name	Value	Unit	Biological Reference interval
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	

DECREASED:

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

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

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



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Test Name		Value	Unit	Biological Reference interval
	KIE	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	33.34	mg/dL	10.00 - 50.00
CREATININE: SERUN by ENZYMATIC, SPEC		1.27	mg/dL	0.40 - 1.40
BLOOD UREA NITRO by CALCULATED, SPE		15.58	mg/dL	7.0 - 25.0
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE CTROPHOTOMETRY	12.27	RATIO	10.0 - 20.0
UREA/CREATININE R by CALCULATED, SPE		2 <mark>6.25</mark>	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS	E PEROXIDASE	4.61	mg/dL	3.60 - 7.70
CALCIUM: SERUM by arsenazo III, spe	CTROPHOTOMETRY	9.46	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER by phosphomolybd ELECTROLYTES	UM ate, spectrophotometry	2.64	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	139.9	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.6	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ESTIMATED GLOME	E ELECTRODE) RULAR FILTERATION RATE	104.93	mmol/L	90.0 - 110.0
ESTIMATED GLOMEF (eGFR): SERUM by calculated INTERPRETATION:	RULAR FILTERATION RATE	62.7		

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.



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A PIONEER DIAGNOSTIC CENTRE

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AGE/ GENDER	: Mr. TIRLOKI NATH : 65 YRS/MALE	PATIENT ID	: 1581919
COLLECTED BY		REG. NO./LAB NO.	: 122408160001
REFERRED BY		REGISTRATION DATE	: 16/Aug/2024 08:09 AM
BARCODE NO.	: 12504159	COLLECTION DATE	: 16/Aug/2024 08:29AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 16/Aug/2024 12:45PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	HARYANA	
Test Name	Value	Unit	Biological Reference interval

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

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

2. Prerenal azotemia superimposed on renal disease.

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

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

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

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

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

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

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

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

2. Cephalosporin therapy (interferes with creatinine measurement).

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



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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage 5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure 6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C 7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 16/Aug/2024 04:56PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	
Test Name	Value	Unit	Biological Reference interval
	I	RON PROFILE	

IRON: SERUM	96.95	μg/dL	59.0 - 158.0
UNSATURATED IRON BINDING CAPACITY (UIBC)	206.91	μg/dL	150.0 - 336.0
by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC)	303.86	ug (d)	230 - 430
:SERUM	303.80	µg/dL	230 - 430
by SPECTROPHOTOMETERY %TRANSFERRIN SATURATION: SERUM	31.91 DKD	%	15.0 - 50.0
by CALCULATED, SPECTROPHOTOMETERY (FERENE) TRANSFERRIN: SERUM	215.74	mg/dL	200.0 - 350.0
by SPECTROPHOTOMETERY (FERENE)			

INTERPRETATION:-

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for TOTAL IRON BINDING CAPACITY (TIBC): 1.1t 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 INSTI	TUTE Rep	ORTING DATE	: 16/Aug/2024 01:36PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN	OLOGY	
	тн	YROID FUNCTIO	N TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	1.057 4 <i>Y)</i>	ng/mL	0.35 - 1.93
THYROXINE (T4): SEI	RUM iescent microparticle immunoassa	7.21 AY)	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	4.577 (AY)	µIU/mL	0.35 - 5.50

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

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

LIMITATIONS:-

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

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

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

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TS	
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





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Test Name			Value	Unit		Biolog	ical Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00		
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50		
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50		
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50		
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	SNANCY (μIU/mL)			
	1st Trimester			0.10 - 2.50			Ī
	2nd Trimester			0.20 - 3.00			Ī
	3rd Trimester			0.30 - 4.10			Ī

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester



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CLIENT ADDRESS		ROAD, AMBALA CITY - H		10,110, 102, 002, 01,001,12
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
		VITAMIN D/25 H	IYDROXY VITAMIN D3	
VITAMIN D (25-HYD by CLIA (CHEMILUMII	ROXY VITAMIN D3): S Nescence IMMUNOASS.	ERUM 14.41 ^L 4 <i>Y</i>)	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:		00		
	CIENT: FICIENT:	< 20 21 - 29		//mL
	ED RANGE:	30 - 100		//////////////////////////////////////
1.Vitamin D compou	CATION: nds are derived from d	> 100 lietary ergocalciferol (from /itamin D3 in the skin upo	n plants, Vitamin D2), or chol	/mL ecalciferol (from animals, Vitamin D3), or by
3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency r DECREASED: 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing d INCREASED:	rimary role in the mai ion, skeletal calcium of nay lead to failure to n malabsorption (celiac Vitamin D 25- hydroxy need Liver disease econdary Hyperparath rugs: anti-epileptic dru D is Rare, and is seen o	eposition, calcium mobiliz nineralize newly formed o disease) vlase activity nroidism (Mild to Moderat gs like phenytoin, phenob nly after prolonged expos nia.	zation, mainly regulated by p steoid in bone, resulting in ri e deficiency) arbital and carbamazepine, f ure to extremely high doses	a absorption, renal calcium absorption and arathyroid harmone (PTH). ckets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent
severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	ent therapy in deficient			ency due to excess of melanin pigment whic





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LIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYAN	A	0
	LAMIN: SERUM NESCENT MICROPARTICLE	Value VITAMIN B12/CC 197.1 ^L	Unit DBALAMIN pg/mL	Biological Reference interva 200.0 - 1100.0
/ITAMIN B12/COBA		VITAMIN B12/CC	DBALAMIN	
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE	VITAMIN B12/CC 197.1 ^L	DBALAMIN	200.0 - 1100.0
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 hin C	VITAMIN B12/CC 197.1 ^L	DBALAMIN pg/mL DECREASED VITAMIN	200.0 - 1100.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE	VITAMIN B12/CC 197.1 ^L	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants,	200.0 - 1100.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	VITAMIN B12/CC 197.1 ^L	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion	200.0 - 1100.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CC 197.1 ^L	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones	200.0 - 1100.0 B12

ileal resection, small intestinal diseases). 5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of propriocontion, neuropathy, and affective behavioral changes. These manifestations may occur in any combination, many patients have

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 interval
		CLINICAL PATHO	LOGY	
	URINE RO	DUTINE & MICROSCOP	IC EXAMINAT	ION
PHYSICAL EXAMINA	<u>FION</u>			
QUANTITY RECIEVED		25	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	AIVIDER TELLOW		PALE TELLOW
TRANSPARANCY		TURBID		CLEAR
-	TANCE SPECTROPHOTOMETRY	DKD		
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN		TRACE		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEOATIVE (-VC)		
рН		5.5		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
NITRITE		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0
KETONE BODIES	IANUL OF LUI NUF AUI UMEIRI	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
BLOOD		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-VC)		
MICROSCOPIC EXAM				



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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.)**



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NAME	: Mr. TIRLOKI NATH				
AGE/ GENDER	: 65 YRS/MALE	PATIEN	T ID	: 1581919	
COLLECTED BY	:	REG. NO)./LAB NO.	: 122408160001	
REFERRED BY	:	REGISTRATION DAT		: 16/Aug/2024 08:09 AM	
BARCODE NO. : 12504159		COLLECTION DATE		: 16/Aug/2024 08:29AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE REPOR	FING DATE	: 16/Aug/2024 12:45PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AME	BALA CITY - HARYANA			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	ABSENT	
CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS		NEGATIVE (-ve)		NEGATIVE (-ve)	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report

ABSENT



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

