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

NAME	: Miss. KAJAL			
AGE/ GENDER	: 26 YRS/FEMALE		PATIENT ID	: 1724210
COLLECTED BY	:		REG. NO./LAB NO.	: 122501150001
REFERRED BY	:		REGISTRATION DATE	: 15/Jan/2025 09:54 AM
BARCODE NO.	: 12506521		COLLECTION DATE	: 15/Jan/2025 10:03AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	REPORTING DATE	: 15/Jan/2025 01:16PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WE	ELLNESS PANEL: 1.5	
	СОМР	LETE BI	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H)	B)	11.3 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.63	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	34.7 ^L	%	37.0 - 50.0
MEAN CORPUSCUL		75 ^L	KR fl	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) utomated hematology analyzer	24.5 ^L	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.7	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	16.7 ^H	%	11.00 - 16.00
by CALCULATED BY A	UTION WIDTH (RDW-SD) utomated hematology analyzer	47.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		16.2	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED	DEX	27.16	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
	BY SF CUBE & MICROSCOPY	6410	/cmm	4000 - 11000
DIFFERENTIAL LE	<u>UCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		41 ^L	%	50 - 70



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: Miss. KAJAL

NAME

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		Value		
Test Name			Unit	Biological Reference interval
LYMPHOCYTES	RY BY SF CUBE & MICROSCOPY	48 ^H	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES by FLOW CYTOMETE	RY BY SF CUBE & MICROSCOPY	10	%	2 - 12
BASOPHILS		0	%	0 - 1
	RY BY SF CUBE & MICROSCOPY OCYTES (WBC) COUNT			
ABSOLUTE NEUTI		2628	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPH	HOCYTE COUNT RY BY SF CUBE & MICROSCOPY	3077 ^L	/cmm	800 - 4900
ABSOLUTE EOSIN	OPHIL COUNT	64	/cmm	40 - 440
-	RY BY SF CUBE & MICROSCOPY	0.4.1	1	80, 890
ABSOLUTE MONO	RY BY SF CUBE & MICROSCOPY	641	/cmm	80 - 880
ABSOLUTE BASOF		0	/cmm	0 - 110
•	RY BY SF CUBE & MICROSCOPY OTHER PLATELET PREDICTIVE	MARKERS		
PLATELET COUNT		277000	/cmm	150000 - 450000
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (P	,	0.26	%	0.10 - 0.36
by HYDRO DYNAMIC MEAN PLATELET	FOCUSING, ELECTRICAL IMPEDENCE	9	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	0	IL	0.00 12.0
by HYDRO DYNAMIC	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	66000	/cmm	30000 - 90000
	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	23.6	%	11.0 - 45.0
PLATELET DISTRI	IBUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.5	%	15.0 - 17.0
	UCTED ON EDTA WHOLE BLOOD			



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE REP	DRTING DATE	: 15/Jan/2025 05:41PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	/IBALA CITY - HARYAN	Α	
Test Name		Value	Unit	Biological Reference inter
	GLY	COSYLATED HAEMO	GLOBIN (HBA1C)	
WHOLE BLOOD	MOGLOBIN (HbA1c):	5.5	%	4.0 - 6.4
ESTIMATED AVERAG		111.15	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED	HEMOGLOGIB (HBAIC) in	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	DKI	5.7 - 6.4	
Dia	gnosing Diabetes		>= 6.5	
		Goals of Therapy:	ge > 19 Years < 7.0	
Therapeutic goals for glycemic control		Actions Suggested:	>8.0	
Therapeutic	merapeutic goals for glycemic control			
Therapeutic	goals for grycernic control		ge < 19 Years	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 4.High appropiate.

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

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

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



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NAME : Miss. KAJAL AGE/ GENDER : 26 YRS/FEMALE **PATIENT ID** :1724210 **COLLECTED BY** REG. NO./LAB NO. : 122501150001 : **REFERRED BY REGISTRATION DATE** : 15/Jan/2025 09:54 AM : **BARCODE NO.** : 12506521 **COLLECTION DATE** : 15/Jan/2025 10:03AM **CLIENT CODE.** : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** : 15/Jan/2025 05:41PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Test Name Value Unit **Biological Reference interval**

PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

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Name : Age : Gender :	Case : Department :	Patient Type Sample Type	: Whole Blood EDTA	Test Date : 15/01/2025 19:56:1 Sample Id : 12506521 Total Area : 8021
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)
HbA0	68	2142	7343	91.5
HbA1c	38	37	319	5.5
La1c	26	24	160	2.7
HbF	19	13	38	0.2
Hba1b	14	25	82	1.4
Hba1a	11	20	79	1.4
0.03				Choromotography Hbalo
0.025 -		. / 1		
0.02-		M 1		
ଞ୍ଚୁ 0.015 –				
0.01 -				
0.005 —	\sim		\mathbf{x}	
0				
0 10		70 80 90 1 ime(S)	00 110 120 130	



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE RI	EPORTING DATE	: 15/Jan/2025 04:19PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	ENTATION RATE (I	ESR)
ERYTHROCYTE SEI	DIMENTATION RATE (ESR)	18	mm/1st	hr 0 - 20
	GATION BY CAPILLARY PHOTOMETRY			
INTERPRETATION: 1 FSR is a non-specif	ic test because an elevated result o	often indicates the	presence of inflammat	ion associated with infection, cancer and auto
immune disease, but	does not tell the health practitione	er exactly where the	ne inflammation is in the	e body or what is causing it.
2. An ESR can be affe	cted by other conditions besides in	flammation. For t	his reason, the ESR is ty	pically used in conjunction with other test suc
as C-reactive protein		and response to	thorapy in both of the a	bove diseases as well as some others, such as
systemic lupus eryth		and response to	liferapy in both of the a	bove diseases as well as some others, such as
CONDITION WITH LO				

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

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

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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Test		Valare	T124	Diala dial Defermenti interna
Test Name		Value	Unit	Biological Reference interval
	CUNI	CAI CHEMISTE	N/RIOCHFMIST	RV
	CLINI		RY/BIOCHEMIST	RY
	CLINI	CAL CHEMISTE GLUCOSE FA		RY

2. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

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.
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Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O>		194.75	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	72.53	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 70N	65.59	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		114.65	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES by CALCULATED, SPE		129.16	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(14.51	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		462.03	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE		2.97	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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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.75	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.11 ^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 interva
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.59	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.41	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	20.35	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	16.6	KR U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.23	RATIO	0.00 - 46.00
ALKALINE PHOSPH		49.61	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	14.17	U/L	0.00 - 55.0
FOTAL PROTEINS: by BIURET, SPECTRO		6.21	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.19	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	-	2.02 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		2.07 ^H	RATIO	1.00 - 2.00

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:

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





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DECREASED:

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

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

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 interva	
	KIDNI	EY FUNCTI	ON TEST (COMPLETE))	
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	20.31	mg/dL	10.00 - 50.00	
CREATININE: SERU		0.88	mg/dL	0.40 - 1.20	
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	9.49	mg/dL	7.0 - 25.0	
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	10.78	RATIO	10.0 - 20.0	
UREA/CREATININ by CALCULATED, SPE		<mark>23.08</mark>	RATIO		
URIC ACID: SERUM by URICASE - OXIDAS		2.55	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.38	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE by phosphomolybe ELECTROLYTES	ERUM DATE, SPECTROPHOTOMETRY	3.13	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	135.6	mmol/L	135.0 - 150.0	
POTASSIUM: SERU	M	4.1	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIV	I (E ELECTRODE)	101.7	mmol/L	90.0 - 110.0	
	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by calculated INTERPRETATION:	ERULAR FILTERATION RATE	92.9			
	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.



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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NAME	: Miss. KAJAL		
AGE/ GENDER	: 26 YRS/FEMALE	PATIENT ID	: 1724210
COLLECTED BY	:	REG. NO./LAB NO.	: 122501150001
REFERRED BY	:	REGISTRATION DAT	TE : 15/Jan/2025 09:54 AM
BARCODE NO.	: 12506521	COLLECTION DATE	: 15/Jan/2025 10:03AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	E REPORTING DATE	: 15/Jan/2025 01:16PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA		. 10, 542 2020 01.101.14
Test Name		Value Unit	Biological Reference interval
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients v INAPPROPIATE RATIO	nd starvation. e. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in b of inappropiate antidiuretic harmone) d IO:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine t eleases muscle creatinine). who develop renal failure. :	an creatinine) (e.g. obstructive u t of extracellular fluid). lood). ue to tubular secretion of urea. to creatinine).	ropathy). odologies,resulting in normal ratio when dehydrat
should produce an inc	creased BUN/creatinine ratio). apy (interferes with creatinine measure JLAR FILTERATION RATE:		
ESTIMATED GLOMERU 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	
C 4	Courses de services la CED	15 00	



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Severe decrease in GFR

Kidney failure

15-29

<15

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G4 G5





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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

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

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

ADVICE:

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



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Test Name		Value	Unit	Biological Reference interval	
		IRON PRO	DFILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	20.3 ^L	μg/dL	37.0 - 145.0	
UNSATURATED IRON BINDING CAPACITY (UIBC)		435.72 ^H	μg/dL	150.0 - 336.0	
:SERUM by FERROZINE. SPEC	TROPHOTOMETERY				
by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC) :SERUM		456.02 ^H	μg/dL	230 - 430	

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.

4.45^L

323.77

%

IRON DEFICIENCY ANEMIA

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

2. 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.

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

% TRANSFERRIN SATURATION:

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

INTERPRETATION:-

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

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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NOT VALID FOR MEDICO LEGAL PURPOSE



NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

PKR JAIN HEALTHCARE INSTITUTE

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAN	NA	
		Value	Unit	Biological Reference interval
Test Name		value	Unit	biological kelefence inter var
Test Name				biological keterence interval
Test Name	THYRO	ENDOCRIN		biological keterence interval
TRIIODOTHYRONIN		ENDOCRIN DID FUNCTIO 1.24	OLOGY	0.35 - 1.93
THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN DID FUNCTIO 1.24 8.08	OLOGY N TEST: TOTAL	U
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN DID FUNCTIO 1.24 8.08 4.55	OLOGY N 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	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	YRONINE (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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Test Name		Value Unit		t	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	
	RECON	/IMENDATIONS 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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Test Name		Value	Unit	Biological Reference interval
	IMM	UNOPATHOLO	GY/SEROLOGY	Y
		C-REACTIVE PRO	DTEIN (CRP)	
C-REACTIVE PROT SERUM by NEPHLOMETRY INTERPRETATION:	EIN (CRP) QUANTITATIVE:	0.78	mg/L	0.0 - 6.0
1. C-reactive protein 2. CRP levels can incr proliferation.				n, inflammation, surgery, or neoplastic fections after surgery, to detect transplant

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.



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Test Name		Value	Unit	Biological Reference interval	
	DUEUMATOU	EACTOR (RA): QUANTITATIVE	SEDIM	
	FACTOR QUANTITATIVE:	8.9	IU/mL	- SERUM NEGATIVE: < 18.0	
SERUM by NEPHLOMETRY	FACTOR QUANTITATIVE:	8.9	107 mL	BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0	
INTERPRETATION:- RHEUMATOID FACTO	R (RA):				
1. Rheumatoid factor 2. Over 75% of patier	s (RF) are antibodies that are direc nts with rheumatoid arthritis (RA)	have an IgM an	Fc fragment of IgG altered tibody to IgG immunoglobu	in its tertiary structure. Ilin. This autoantibody (RF) is diagnostically	
useful although it ma 3. Inflammatory Mar	ly not be etiologically related to RA kers such as ESR & C-Reactive prot	A. ein (C <mark>RP) are n</mark> e	ormal in about 60 % of patie	ents with positive RA.	
4. The titer of RF corr	elates poorly with disease activity or diagnosis and prognosis of rhe	, but those patie	ents with high titers tend to	have more severe disease course.	
RHEUMATOID ARTHIR	RITIS:				
1. Rheumatoid Arthii	itis is a systemic autoimmune dis	ease that is mu	ti-functional in origin and i	s characterized by chronic inflammation of the store of t	
membrane lining (sv	for the second s	groatost damag	struction and in most case	is to disubility and reduction of quality me.	
membrane lining (sy 2. The disease spreda	as from small to large joints, with	greatest uarray	e in early phase.		
membrane lining (sy 2. The disease spreda 3. The diagnosis of R	A is primarily based on clinical, ra	diological & im	e in early phase. munological features.The n	nost frequent serological test is the	
membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA f CAUTION (FALSE POS	A is primarily based on clinical, ra actor. TIVE):-	diological & im	munological features.The n		
membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA fi CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid ar	A is primarily based on clinical, ra actor. TIVE):- cific for Rheumatoid arthiritis, as it of rheumatoid arthritis (RA) populat	diological & im is often present tions are not cle	munological features.The n in healthy individuals with o arly separate with regard to	nost frequent serological test is the ther autoimmune diseases and chronic infectior the presence of rheumatoid factor (RF) (15% of	
membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA f CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid ar RA patients have a no	A is primarily based on clinical, ra actor. TIVE):- cific for Rheumatoid arthiritis, as it d rheumatoid arthritis (RA) populat preactive titer and 8% of nonrheum	diological & im is often present tions are not cle natoid patients l	munological features.The n in healthy individuals with o arly separate with regard to nave a positive titer).	ther autoimmune diseases and chronic infection the presence of rheumatoid factor (RF) (15% of	
membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA f CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid ar RA patients have a no 3. Patients with varioo lupus erythematosus,	A is primarily based on clinical, ra actor. TIVE):- icific for Rheumatoid arthiritis, as it of rheumatoid arthritis (RA) populat preactive titer and 8% of nonrheum us nonrheumatoid diseases,characte polymyositis, tuberculosis, syphilis,	diological & im is often present tions are not cle natoid patients l erized by chronic viral hepatitis, i	munological features. The n in healthy individuals with o arly separate with regard to have a positive titer). i inflammation may have pos nfectious mononucleosis, an	ther autoimmune diseases and chronic infection the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include system d influenza.	
membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA f CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid ar RA patients have a no 3. Patients with varioo Jupus erythematosus, 4. Anti-CCP have beer specific (98%) than RA	A is primarily based on clinical, ra actor. TIVE):- icific for Rheumatoid arthiritis, as it on reactive titer and 8% of nonrheum us nonrheumatoid diseases, characte polymyositis, tuberculosis, syphilis, o discovered in joints of patients wit	diological & im is often present tions are not cle hatoid patients l erized by chronic viral hepatitis, i h RA, but not in	munological features. The n in healthy individuals with o arly separate with regard to have a positive titer). : inflammation may have pos nfectious mononucleosis, an other form of joint disease. A	ther autoimmune diseases and chronic infection the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include system	





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Test Name		Value	Unit	Biologie	cal Reference interva
		Vľ	TAMINS		
	VITA		IYDROXY VITAMIN D3	6	
	DROXY VITAMIN D3): SERUM escence immunoassay)	12.9 ^L	ng/mL	INSUFF SUFFIC	ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0 IY: > 100.0
INTERPRETATION:					
DEFI	CIENT:	< 20	ng	/mL	

INTERFRETATION.		
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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Test Name	Val VITAN	lue Unit /IN B12/COBALAMIN	Biological Reference interv	
VITAMIN B12/COE by CMIA (CHEMILUMIN	VITAM	IIN B12/COBALAMIN	Biological Reference interv 200.0 - 1100.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM 21	IIN B12/COBALAMIN	200.0 - 1100.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	VITAN ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	IIN B12/COBALAMIN 3 pg/mL	200.0 - 1100.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	VITAN ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	AIN B12/COBALAMIN 3 pg/mL DECREASED VITAM 1.Pregnancy 2.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	VITAN ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C gen 2 nin A 3	AIN B12/COBALAMIN 3 pg/mL DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant 3.Ethanol Igestion	200.0 - 1100.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	VITAN ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C gen in A jury	AIN B12/COBALAMIN 3 pg/mL DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant 3.Ethanol Igestion 4. Contraceptive Harmones	200.0 - 1100.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	VITAN ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 inin C gen inin A jury 2 e disorder 5	AIN B12/COBALAMIN 3 pg/mL DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant 3.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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: Miss. KAJAL

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

NAME	: Miss. KAJAL					
AGE/ GENDER	: 26 YRS/FEMALE	PATIENT	ID	: 1724210		
COLLECTED BY:REFERRED BY:BARCODE NO.: 12506521CLIENT CODE.: P.K.R JAIN HEALTHCARE INST		REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE		: 122501150001 : 15/Jan/2025 09:54 AM		
				TITUTE REPORTI	NG DATE	: 15/Jan/2025 01:16PM
		CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interv		
		CLINICAL PATHO	LOGY			
	URINE RO	UTINE & MICROSCOP	PIC EXAMINA	ATION		
PHYSICAL EXAMIN	NATION					
QUANTITY RECIEV	ED TANCE SPECTROPHOTOMETRY	25	ml			
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW		
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR		
SPECIFIC GRAVITY	, TANCE SPECTROPHOTOMETRY	1 ^l PKR		1.002 - 1.030		
CHEMICAL EXAMI						
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC				
PROTEIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
SUGAR	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
pH	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5		
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)		
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0		
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
ASCORBIC ACID by DIP STICK/REFLEC MICROSCOPIC EXA	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3		



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**



NAME

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - H	IARYANA		
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	7-8	/HPF	0 - 5	
EPITHELIAL CELL		5-6	/HPF	ABSENT	

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

*** End Of Report ***



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