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

NAME	: Mrs. SAKSHI				
AGE/ GENDER	: 32 YRS/FEMALE		PATIENT ID	: 1669335	
COLLECTED BY	:		REG. NO./LAB NO.	: 1224111	20012
REFERRED BY	:		REGISTRATION DATE	:12/Nov/2	024 10:05 AM
BARCODE NO.	: 12505615		COLLECTION DATE	:12/Nov/2	024 10:19AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	REPORTING DATE	:12/Nov/2	024 01:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - H	ARYANA		
Test Name		Value	Unit	Bi	ological Reference interval
	SWASTI	HYA WI	ELLNESS PANEL: 1.5	j	
	СОМР	LETE BI	LOOD COUNT (CBC)		
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	11.5 ^L	gm/dL	12	2.0 - 16.0
RED BLOOD CELL (RBC) COUNT	3.92	Millions/	cmm 3.	50 - 5.00
PACKED CELL VOLU		33.9 ^L	%	37	7.0 - 50.0
MEAN CORPUSCUL		86.5	KR fl	80	0.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.3	pg	27	7.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	33.9	g/dL	32	2.0 - 36.0
	UTION WIDTH (RDW-CV)	13.7	%	1	1.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	45.4	fL	35	5.0 - 56.0
MENTZERS INDEX by CALCULATED		22.07	RATIO	13	ETA THALASSEMIA TRAIT: < 3.0 RON DEFICIENCY ANEMIA:
GREEN & KING INE by CALCULATED	DEX	30.19	RATIO	B] 65 IR	13.0 ETA THALASSEMIA TRAIT:<= 5.0 CON DEFICIENCY ANEMIA: > 5.0
WHITE BLOOD CE	LLS (WBCS)				
	Y BY SF CUBE & MICROSCOPY	6540	/cmm	40	000 - 11000
	<u>UCOCYTE COUNT (DLC)</u>				
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	68	%	50	0 - 70
LYMPHOCYTES		26	%	20	0 - 40

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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: Mrs. SAKSHI

NAME

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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SAKSHI			
AGE/ GENDER	: 32 YRS/FEMALE	P	PATIENT ID	: 1669335
COLLECTED BY	:	F	REG. NO./LAB NO.	: 122411120012
REFERRED BY	:	F	REGISTRATION DATE	: 12/Nov/2024 10:05 AM
BARCODE NO.	: 12505615	C	COLLECTION DATE	: 12/Nov/2024 10:19AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	TUTE R	REPORTING DATE	: 12/Nov/2024 01:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HAR	YANA	
Test Name		Value	Unit	Biological Reference interval
by FLOW CYTOMET	RY BY SF CUBE & MICROSCOPY			
EOSINOPHILS		0 ^L	%	1 - 6
by FLOW CYTOMETF	RY BY SF CUBE & MICROSCOPY	6	%	2 - 12
	RY BY SF CUBE & MICROSCOPY	0	70	2 - 12
BASOPHILS		0	%	0 - 1
•	RY BY SF CUBE & MICROSCOPY			
	<u>OCYTES (WBC) COUNT</u>			
ABSOLUTE NEUTI	ROPHIL COUNT RY BY SF CUBE & MICROSCOPY	4447	/cmm	2000 - 7500
ABSOLUTE LYMPH		1700 ^L	/cmm	800 - 4900
by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY	1700-		000 1000
ABSOLUTE EOSIN		0 ^L	/cmm	40 - 440
by FLOW CYTOMETF ABSOLUTE MONO	RY BY SF CUBE & MICROSCOPY	392	lomm	80 - 880
	RY BY SF CUBE & MICROSCOPY	392	/cmm	80 - 880
ABSOLUTE BASOF	PHIL COUNT	0	/cmm	0 - 110
	RY BY SF CUBE & MICROSCOPY			
	OTHER PLATELET PREDICTIVE			
PLATELET COUNT	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	249000	/cmm	150000 - 450000
PLATELETCRIT (P		0.28	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	0.20	70	0.10 0.00
MEAN PLATELET		11	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE E CELL COUNT (P-LCC)	88000	lomm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE	00000	/cmm	20000 - 20000
PLATELET LARGE	E CELL RATIO (P-LCR)	35.3	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE			
	IBUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.3	%	15.0 - 17.0
	UCTED ON EDTA WHOLE BLOOD			



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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

NAME	: Mrs. SAKSHI				
AGE/ GENDER	: 32 YRS/FEMALE	PAT	TIENT ID	: 1669335	
COLLECTED BY	:	REG	G. NO./LAB NO.	: 122411120012	
REFERRED BY		RFO	SISTRATION DATE	: 12/Nov/2024 10:05 A	ЪM
	. 19505015				
BARCODE NO.	: 12505615		LECTION DATE	: 12/Nov/2024 10:19A	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE Ref	PORTING DATE	: 12/Nov/2024 04:48P	M
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYA	NA		
Test Name		Value	Unit	Biological R	eference interval
	GLYCOS AEMOGLOBIN (HbA1c):	SYLATED HAEM 5.8	OGLOBIN (HBA10 %	2) 4.0 - 6.4	
ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	119.76	mg/dL	60.00 - 140.0	00
	AS PER AMERICAN DI	ABETES ASSOCIATIO	N (ADA):		
	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %	
Non di	abetic Adults >= 18 years	DIZ	<5.7		
11011 41			5.7 - 6.4		
A	t Risk (Prediabetes)				
A	it Risk (Prediabetes) Diagnosing Diabetes		>= 6.5		
A			>= 6.5 Age > 19 Years	7.0	
A D	biagnosing Diabetes	Goals of T	>= 6.5 Age > 19 Years herapy:	< 7.0	
A D		Goals of T Actions Sug	>= 6.5 Age > 19 Years herapy:	< 7.0 >8.0	

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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BARCODE NO.	: 12505615	COLLECTION DATE	: 12/Nov/2024 10:19AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 12/Nov/2024 03:14PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CI	TY - HARYANA	
Test Name			
lest Name			Biological Reference interval
L	ERYTHROCYTE	SEDIMENTATION RATE (ESR)
ERYTHROCYTE SEI		SEDIMENTATION RATE (ESR)
ERYTHROCYTE SEI by red cell aggreg INTERPRETATION:	ERYTHROCYTE DIMENTATION RATE (ESR) 21 GATION BY CAPILLARY PHOTOMETRY	SEDIMENTATION RATE (H mm/1st	ESR) hr 0-20
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif	ERYTHROCYTE DIMENTATION RATE (ESR) 21 GATION BY CAPILLARY PHOTOMETRY	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat	ESR) hr 0 - 20 ion associated with infection, cancer and auto
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY ic test because an elevated result often ind does not tell the health practitioner exactl	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it.
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY ic test because an elevated result often ind does not tell the health practitioner exact cted by other conditions besides inflamma	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th tion. For this reason, the ESR is ty	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test suc
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY 21 ic test because an elevated result often inc does not tell the health practitioner exact cted by other conditions besides inflamma be used to monitor disease activity and res	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th tion. For this reason, the ESR is ty	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it.
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY ic test because an elevated result often ind does not tell the health practitioner exactl cted by other conditions besides inflamma be used to monitor disease activity and resematosus	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th tion. For this reason, the ESR is ty	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test suc
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOW	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY ic test because an elevated result often ind does not tell the health practitioner exactl cted by other conditions besides inflamma be used to monitor disease activity and reservators matosus N ESR	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th tion. For this reason, the ESR is ty sponse to therapy in both of the a	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test suc bove diseases as well as some others, such as
ERYTHROCYTE SEI by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erytho CONDITION WITH LOI A low ESR can be see (polycythaemia), sigr	ERYTHROCYTE DIMENTATION RATE (ESR) 21 SATION BY CAPILLARY PHOTOMETRY ic test because an elevated result often ind does not tell the health practitioner exactl cted by other conditions besides inflamma be used to monitor disease activity and rese ematosus N ESR n with conditions that inhibit the normal s	SEDIMENTATION RATE (H mm/1st dicates the presence of inflammat ly where the inflammation is in th ition. For this reason, the ESR is ty sponse to therapy in both of the a redimentation of red blood cells, s	ESR) hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test suc bove diseases as well as some others, such as

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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NAME	: Mrs. SAKSHI		
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BARCODE NO.	: 12505615	COLLECTION DATE	: 12/Nov/2024 10:19AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 12/Nov/2024 01:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CI	ГҮ - HARYANA	
Test Name	Val	ue Unit	Biological Reference interva
	CLINICAL CH	EMISTRY/BIOCHEMIST	RY
		EMISTRY/BIOCHEMIST COSE FASTING (F)	RY
GLUCOSE FASTING	GLU	COSE FASTING (F)	RY NORMAL: < 100.0 PREDIABETIC: 100.0 - 12

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 PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		210.18 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	187.6 ^H	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	76.31	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		96.35	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		133.87 ^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		37.52	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	607.96	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	2.75	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by calculated, spectrophotometry	1.26	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.46^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, sf	SERUM PECTROPHOTOMETRY	0.77	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.63	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	45.16 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	54.34 ^H	KR U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		0.83	RATIO	0.00 - 46.00
ALKALINE PHOSPH by para nitrophen propanol	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	95.07	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	79.74 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.99	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.21	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.51	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).

PROGNOSTIC	SIGNIFICANCE:

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



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REFERRED BY			REGISTRATION DATE		
BARCODE NO.			COLLECTION DATE		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	TTUTE	REPORTING DATE	: 12/Nov/2024 03:41PM	
CLIENT ADDRESS			IARYANA		
Test Name		Value	Unit	Biological Reference interval	
	KIDN	EY FUNCTI	ION TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	17.93	mg/dL	10.00 - 50.00	
CREATININE: SERU by ENZYMATIC, SPEC		0.47	mg/dL	0.40 - 1.20	
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	8.38	mg/dL	7.0 - 25.0	
BLOOD UREA NITR RATIO: SERUM by Calculated, spe	COGEN (BUN)/CREATININE	17.83	RATIO	10.0 - 20.0	
UREA/CREATININ by CALCULATED, SPE		3 <mark>8.15</mark>	RATIO		
URIC ACID: SERUM by URICASE - OXIDAS		4.43	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.94	mg/dL	8.50 - 10.60	
	RUM DATE, SPECTROPHOTOMETRY	2.72	mg/dL	2.30 - 4.70	
<u>ELECTROLYTES</u>					
SODIUM: SERUM by ISE (ION SELECTIV		139.8	mmol/L	135.0 - 150.0	
POTASSIUM: SERUI by ISE (ION SELECTIV	Μ	4.09	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM	[104.85	mmol/L	90.0 - 110.0	
ESTIMATED GLOM	IERULAR FILTERATION RATE	<u>I</u>			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	129.6			

by CALCULATE **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.



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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

COLLECTED BYREFERRED BYBARCODE NO.CLIENT CODE.	32 YRS/FEMALE 12505615 P.K.R JAIN HEALTHCARE INSTITUTH NASIRPUR, HISSAR ROAD, AMBALA		: 1669335 : 122411120012 TE : 12/Nov/2024 10:0 : 12/Nov/2024 10:1 : 12/Nov/2024 03:4	
REFERRED BY : BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	P.K.R JAIN HEALTHCARE INSTITUTE	REGISTRATION DAT COLLECTION DATE E REPORTING DATE	TE : 12/Nov/2024 10:0 : 12/Nov/2024 10:1	
BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	P.K.R JAIN HEALTHCARE INSTITUTE	COLLECTION DATE REPORTING DATE	: 12/Nov/2024 10:1	
CLIENT CODE. : CLIENT ADDRESS :	P.K.R JAIN HEALTHCARE INSTITUTE	E REPORTING DATE		9AM
CLIENT CODE. : CLIENT ADDRESS :	P.K.R JAIN HEALTHCARE INSTITUTE	E REPORTING DATE		01 III
CLIENT ADDRESS :			. 12/1101/202100.1	1PM
Test Name				11 11
	1	/alue Unit	Biological	Reference interval
 Certain drugs (e.g. tet NCREASED RATIO (>20:1 Postrenal azotemia (B Prerenal azotemia sup DECREASED RATIO (<10:⁻ Acute tubular necrosi Low protein diet and s 	g. ureter colostomy) s (subnormal creatinine production) tracycline, glucocorticoids) I) WITH ELEVATED CREATININE LEVELS UN rises disproportionately more that perimposed on renal disease. I) WITH DECREASED BUN : S.		iropathy).	
 Inherited hyperammod SIADH (syndrome of in Pregnancy. 	ea rather than creatinine diffuses ou onemias (urea is virtually absent in bl nappropiate antidiuretic harmone) du	lood).		
1. Phenacimide therapy	 WITH INCREASED CREATININE: (accelerates conversion of creatine t ases muscle creatinine). o develop renal failure. 	o creatinine).		
	(acetoacetate causes false increase	in creatinine with certain metho	odologies,resulting in norma	al ratio when dehydrat
should produce an incre	ased BUN/creatinine ratio).			,
2 Cenhalosporin theran	y (interferes with creatinine measure R FILTERATION RATE :	ement).		
ESTIMATED GLOMERI II A				
ESTIMATED GLOMERULA	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS]
ESTIMATED GLOMERULA CKD STAGE G1	DESCRIPTION Normal kidney function	GFR (mL/min/1.73m2) >90	ASSOCIATED FINDINGS No proteinuria]

Normal Runcy function	>70	No proteinuna
Kidney damage with	>90	Presence of Protein,
normal or high GFR		Albumin or cast in urine
Mild decrease in GFR	60 -89	
Moderate decrease in GFR	30-59	
Severe decrease in GFR	15-29	
Kidney failure	<15	
	Kidney damage with normal or high GFR Mild decrease in GFR Moderate decrease in GFR Severe decrease in GFR	Kidney damage with normal or high GFR>90Mild decrease in GFR60 -89Moderate decrease in GFR30-59Severe decrease in GFR15-29



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST







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

NAME	: Mrs. SAKSHI		
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1669335
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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



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

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





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Test Name	Value	Unit	Biological Reference interv
	IRON PH	ROFILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	81.61	μg/dL	37.0 - 145.0
UNSATURATED IRON BINDING CAPACITY (UIBC) SERUM by FERROZINE, SPECTROPHOTOMETERY	230.69	µg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC) SERUM by SPECTROPHOTOMETERY	312.3	µg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUM by Calculated, spectrophotometery (ferene)	26.13	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	221.73	mg/dL	200.0 - 350.0
VARIABLES ANEMIA OF CHRO	NIC DISEASE	RON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT

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. 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.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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

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



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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYA	NA	
T 4 N		¥7-1	¥1*4	D' 1 D. C
Test Name		Value	Unit	Biological Reference interval
		ENDOCRI	NOLOGY	
	THYDO	ENDOCRIN		
	THYRO		NOLOGY DN TEST: TOTAL	
				0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTIO	ON TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
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	DID FUNCTIO 1.27	DN TEST: TOTAL ng/mL	
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)	DID FUNCTIO 1.27 8.55	DN TEST: TOTAL ng/mL µgm/dL	4.87 - 12.60

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) THYROXI		INE (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





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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Test Name		Value Unit			Biological Reference interval	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYAN	A	
Test Name		Value	Unit	Biological Reference interval
		VITAM	NS	
	VITAMI	N D/25 HYDR	DXY VITAMIN D	3
	VITAMI DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	N D/25 HYDR(8.63 ^L	DXY VITAMIN D: ng/mL	B DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

<u>IIVIERPRETATION.</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.



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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	
Test Name VITAMIN B12/COB		N B12/COBALAMIN	Biological Reference interva
VITAMIN B12/COE by CMIA (CHEMILUMIN	VITAMI	N B12/COBALAMIN	U
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	VITAMI ALAMIN: SERUM 361.3 ESCENT MICROPARTICLE IMMUNOASSAY)	N B12/COBALAMIN 2 pg/mL	200.0 - 1100.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	VITAMI ALAMIN: SERUM 361.3 SEC VITAMIN B12	N B12/COBALAMIN 2 pg/mL DECREASED VITAMII	200.0 - 1100.0
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	VITAMI ALAMIN: SERUM 361.3 SEC VITAMIN B12 nin C1.P	N B12/COBALAMIN 2 pg/mL DECREASED VITAMII regnancy	200.0 - 1100.0 NB12
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	VITAMIN SALAMIN: SERUM 361.3 rescent microparticle immunoassary SED VITAMIN B12 nin C 1.P gen 2.D	N B12/COBALAMIN 2 pg/mL DECREASED VITAMII	200.0 - 1100.0 NB12
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estrog	VITAMIN SALAMIN: SERUM 361.3 JESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C 1.P gen 2.D nin A 3.E	N B12/COBALAMIN 2 pg/mL 2 DECREASED VITAMII regnancy RUGS:Aspirin, Anti-convulsants	200.0 - 1100.0 NB12
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	VITAMIN SALAMIN: SERUM 361.3 IESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C 1.P gen 2.D nin A 3.E jury 4.0 e disorder 5.F	N B12/COBALAMIN 2 pg/mL 2 DECREASED VITAMII regnancy RUGS:Aspirin, Anti-convulsants thanol Igestion	200.0 - 1100.0 NB12

excreted.

4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eq, gastrectomy, gastric atrophy) or intestinal malabsorption (eq, ileal resection, small intestinal diseases).

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.



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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYAN	Ą	
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
	URINE RO	UTINE & MICROS	COPIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		30	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		ıl PKR		1.002 - 1.030
,	TANCE SPECTROPHOTOMETRY	•		
CHEMICAL EXAMI	<u>NATION</u>			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		NEGATIVE (-ve)	NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY	NECATIVE (`	
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)	NEGATIVE (-ve)
рН		6.5		5.0 - 7.5
by DIP STICK/REFLEC BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)	NEGATIVE (-ve)
UROBILINOGEN	TAINEE SPECTROPHOTOWETRT.	NOT DETECTEI) 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)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-Ve)	NEGATIVE (-VE)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve) /HPF	0 - 3

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SAKSHI		
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1669335
COLLECTED BY	:	REG. NO./LAB NO.	: 122411120012
REFERRED BY	:	REGISTRATION DATE	: 12/Nov/2024 10:05 AM
BARCODE NO.	: 12505615	COLLECTION DATE	: 12/Nov/2024 10:19AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 12/Nov/2024 01:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	
Test Name	Value	Unit	Biological Reference interval

			8
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	3-4	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	2-3	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

