A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. KIRAN BALA				
AGE/ GENDER	: 57 YRS/FEMALE		PATIENT ID	: 1673449	
COLLECTED BY	:		REG. NO./LAB NO.	: 122411	160014
REFERRED BY	:		REGISTRATION DATE	:16/Nov/	2024 10:38 AM
BARCODE NO.	: 12505684		COLLECTION DATE	:16/Nov/	2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ΤЕ	REPORTING DATE	:16/Nov/	2024 04:24PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HA	ARYANA		
Test Name		Value	Unit	E	Biological Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1.5		
	СОМР	LETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H by CALORIMETRIC	B)	13.4	gm/dL]	12.0 - 16.0
RED BLOOD CELL (by hydro dynamic f	(RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.45	Millions/	cmm 3	3.50 - 5.00
PACKED CELL VOL by CALCULATED BY A	UME (PCV) Automated hematology analyzer	39.7	%	3	37.0 - 50.0
	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	89.3	KR fl	8	30.0 - 100.0
	AR HAEMOGLOBIN (MCH)	30	pg	2	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	33.6	g/dL	3	32.0 - 36.0
	UTION WIDTH (RDW-CV)	13.1	%	1	11.00 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	43	fL	3	35.0 - 56.0
MENTZERS INDEX by CALCULATED		20.07	RATIO	1 I	BETA THALASSEMIA TRAIT: 13.0 RON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by calculated	DEX	26.19	RATIO	1 (BETA THALASSEMIA TRAIT:< 35.0
WHITE BLOOD CE	LLS (WBCS)				RON DEFICIENCY ANEMIA: : 35.0
TOTAL LEUCOCYTI		9290	/cmm	2	4000 - 11000
NUCLEATED RED H	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		(0.00 - 20.00
NUCLEATED RED F	BLOOD CELLS (nRBCS) %	NIL	%	<	< 10 %





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Test Name	Value	Unit	Biological Reference interval	
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY 59	%	50 - 70	

NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	59	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	35	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^L	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5481	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3252	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^L	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	557	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	250000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.31	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	103000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	41	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.9	%	15.0 - 17.0
ADVICE	KINDLY CORRELATE	CLINICALLY	



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Test Name	Value	Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.





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Test Name		Value	Unit	Biological Reference interva
	GLY	COSYLATED HAEM	OGLOBIN (HBA1C)	
WHOLE BLOOD	MOGLOBIN (HbA1c):	5.8	%	4.0 - 6.4
ESTIMATED AVERAG		119.76	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	ETES ASSOCIATION (ADA)		
	FERENCE GROUP	GLYCOSYLATE	HEMOGLOGIB (HBAIC) ir	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	- DKI	5.7 - 6.4	
Dia	gnosing Diabetes		>= 6.5 Age > 19 Years	
		Goals of Therapy:	4ge > 19 reals < 7.0	
Therapeutic goals for glycemic control		Actions Suggested:		
		Actions suggested: >8.0 Age < 19 Years		
morapound			Age < 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.

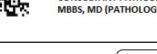
7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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Test Name	Value	Unit	Biological Reference interval

Peak Name HbA0 HbA1c La1c HbF	Retention Time(s)	Absorbance		,	
HbA1c La1c	67		Area	Result (Area %)	
_a1c	07	4383	12023	87.3	
	38	71	620	5.8	
HDE	24	44	331	2.4	
	18	14	50	0.4	
Hba1b	13	49	183	1.3	
Hba1a	11	30	100	0.7	
0.03				Choromotography Hba1c	
0.025					
0.02-					
		A J			
- 0.015 -		12			
0.01-		1.	\		
0.01			\		
0.005 -	\sim	r			
	$\Lambda \land \Lambda$				
0		<u> </u>	~		
0 10	20 30 40 50 60		100 110 120 130		
	Т	ime(S)			





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Test Name		Value	Unit	Biological Reference interval
	ERYTHRO DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	CYTE SEDIMEN 22 ^H	TATION RATE (mm/1st	
1. ESR is a non-specif immune disease, but	cted by other conditions besides in	often indicates the p er exactly where the iflammation. For thi	resence of inflammat inflammation is in the s reason, the ESR is ty	tion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test suc
3. This test may also systemic lupus erythe CONDITION WITH LO A low ESR can be see (polycythaemia), sigr as sickle cells in sickl	be used to monitor disease activity ematosus W ESR n with conditions that inhibit the n	ormal sedimentation nt (leucocytosis) , ai	n of red blood cells, s	above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (suc
2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha	e protein (C-RP) are both markers of s not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ ve a higher ESR, and menstruation ran, methyldopa, oral contraceptiv	P, either at the start making it a better n bes of proteins, glob and pregnancy can	harker of inflammation ulins or fibrinogen. cause temporary eleva	n. ations.



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interva
	CLINIC	AL CHEMISTI	RY/BIOCHEMIST	RY
		GLUCOSE FA	ASTING (F)	
GLUCOSE FASTING	F (F): PLASMA E - PEROXIDASE (GOD-POD)	110.98 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0
by GLUCOSE OXIDAS				DIABETIC: $> 0R = 126.0$

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





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Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		228.1 ^H	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)	263.71 ^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 ion	49.11	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		126.25	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		178.99 ^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(52.74 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	719.91 ^H	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	4.64 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by Calculated, SPECTROPHOTOMETRY	2.57	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	5.37 ^H	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	ON TEST (COMPLETE)		
BILIRUBIN TOTAL: by diazotization, sf	: SERUM PECTROPHOTOMETRY	0.64	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	C (CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.51	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	17.37	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	13.55	U/L	0.00 - 49.00	
AST/ALT RATIO: SI by CALCULATED, SPE		1. <mark>28</mark>	RATIO	0.00 - 46.00	
ALKALINE PHOSPH by para nitrophen propanol	HATASE: SERUM yl phosphatase by amino methyl	69.28	U/L	40.0 - 130.0	
GAMMA GLUTAMY by szasz, spectrof	L TRANSFERASE (GGT): SERUM	16.08	U/L	0.00 - 55.0	
FOTAL PROTEINS: by BIURET, SPECTRO		6.89	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL G	REEN	3.93	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by CALCULATED, SPE		2.96	gm/dL	2.30 - 3.50	
A : G RATIO: SERU	M	1.33	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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Test Name	Value	Unit	Biological Reference interval

DECREASED:

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

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

F	PRO	GNO	DSTIC	SIGN	IFICAN	ICE:

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



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A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mrs. KIRAN BALA			
AGE/ GENDER	: 57 YRS/FEMALE		PATIENT ID	: 1673449
COLLECTED BY	:		REG. NO./LAB NO.	: 122411160014
REFERRED BY :			REGISTRATION DATE	: 16/Nov/2024 10:38 AM
BARCODE NO.	: 12505684		COLLECTION DATE	: 16/Nov/2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE	REPORTING DATE	: 16/Nov/2024 04:48PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interva
	KIDNI	EY FUNCTI	ON TEST (COMPLETE))
UREA: SERUM by UREASE - GLUTAMA	ATE DEHYDROGENASE (GLDH)	30.53	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPECT	ROPHOTOMETERY	0.78	mg/dL	0.40 - 1.20
by CALCULATED, SPEC		14.27	mg/dL	7.0 - 25.0
BLOOD UREA NITR(RATIO: SERUM by calculated, spec	OGEN (BUN)/CREATININE	18.29	RATIO	10.0 - 20.0
UREA/CREATININE by CALCULATED, SPEC		<mark>39.14</mark>	RATIO	
JRIC ACID: SERUM by URICASE - OXIDASE	PEROXIDASE	5.75	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	10.12	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEI by phosphomolybda E lectrolytes	RUM ATE, SPECTROPHOTOMETRY	3.34	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE	ELECTRODE)	136.4	mmol/L	135.0 - 150.0
OTASSIUM: SERUM	1	4.67	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ESTIMATED GLOM	ELECTRODE) ERULAR FILTERATION RATE	102.3	mmol/L	90.0 - 110.0
ESTIMATED GLOME (eGFR): SERUM	ERULAR FILTERATION RATE	88.5		

by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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NOT VALID FOR MEDICO LEGAL PURPOSE



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Test Name	1	Value Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients	ke or production or tissue breakdown (exia, high fever). (e.g. ureter colostomy) hass (subnormal creatinine production) tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LEVEL a (BUN rises disproportionately more th superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuses ou monemias (urea is virtually absent in b of inappropiate antidiuretic harmone) d 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine f eleases muscle creatinine). who develop renal failure.	S: an creatinine) (e.g. obstructive t of extracellular fluid). lood). ue to tubular secretion of urea.	otoxicosis, Cushing's syndrome, high protein diet, uropathy).
should produce an in	sis (acetoacetate causes false increase creased BUN/creatinine ratio).		odologies,resulting in normal ratio when dehydrat
2. Cephalosporin ther ESTIMATED GLOMERI	rapy (interferes with creatinine measure JLAR FILTERATION RATE:	ement).	
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:

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	PROFILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	114.3	µg/dL	37.0 - 145.0	
UNSATURATED IR	ON BINDING CAPACITY (UIBC)	105.07 ^L	μg/dL	150.0 - 336.0	

SERUM	105.071	μg/uL	150.0 - 556.0
by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC) SERUM by SPECTROPHOTOMETERY	208.73 ^L	µg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUM by Calculated, spectrophotometery (ferene)	52.1 ^H	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	155.75 ^L	mg/dL	200.0 - 350.0
INTERPRETATION:-			

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

IRON:

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

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

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





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Test Name		Value	Unit	Biological Reference inter	val
Test Name		Value	Unit	Biological Reference inter	val
Test Name		Value ENDOCRIN		Biological Reference inter	val
Test Name	THYR	ENDOCRIN	OLOGY	Biological Reference inter	val
		ENDOCRIN OID FUNCTIO	OLOGY N TEST: TOTAL		val
TRIIODOTHYRONIN	IE (T3): SERUM	ENDOCRIN OID FUNCTIO 1.34	OLOGY	Biological Reference inter 0.35 - 1.93	val
TRIIODOTHYRONIN	IE (T3): SERUM escent microparticle immunoassay	ENDOCRIN OID FUNCTIO 1.34	OLOGY N TEST: TOTAL		val
TRIIODOTHYRONIN by CMIA (CHEMILUMINI THYROXINE (T4): S	IE (T3): SERUM escent microparticle immunoassay	ENDOCRIN OID FUNCTIO 1.34 8.51	OLOGY N TEST: TOTAL ng/mL	0.35 - 1.93	val
TRIIODOTHYRONIN by cmia (chemilumini THYROXINE (T4): S by cmia (chemilumini THYROID STIMULA	IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY ERUM ESCENT MICROPARTICLE IMMUNOASSAY TING HORMONE (TSH): SERUM	ENDOCRIN OID FUNCTIO 1.34 8.51 3.62	OLOGY N TEST: TOTAL ng/mL	0.35 - 1.93	val
TRIIODOTHYRONIN by cmia (chemilumini THYROXINE (T4): S by cmia (chemilumini THYROID STIMULA	IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY ERUM ESCENT MICROPARTICLE IMMUNOASSAY TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY	ENDOCRIN OID FUNCTIO 1.34 8.51 3.62	OLOGY N TEST: TOTAL ng/mL μgm/dL	0.35 - 1.93 4.87 - 12.60	val

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

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMU	LATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age Refferance Range (µg/dL)		Age	Reference Range (μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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Test Name			Value	Unit		Biolog	jical 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 PREG	NANCY (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
		VITAMIN	VS	
	VITAMI	N D/25 HYDRO	XY VITAMIN D	3
	DROXY VITAMIN D3): SERUM escence immunoassay)	20.4 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				

<u>INTERFRETATION.</u>		
DEFICIENT:	< 20	ng/mL
INSUFFICIENT:	21 - 29	ng/mL
PREFFERED RANGE:	30 - 100	ng/mL
INTOXICATION:	> 100	ng/mL

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults.

DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease)

3. Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED:

1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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Test Name	V	alue Unit	Biological Reference interva
	VITA	MIN B12/COBALAMIN	
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-		MIN B12/COBALAMIN 03.67 pg/mL	. 200.0 - 1100.0
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	ALAMIN: SERUM 4 ESCENT MICROPARTICLE IMMUNOASSAY)		
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12	03.67 pg/mL DECREASED VITAN 1.Pregnancy	ЛIN B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 in C gen	03.67 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar	ЛIN B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 nin C gen in A	03.67 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar 3.Ethanol Igestion	ЛIN B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 inin C gen inin A jury	03.67 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar	ЛIN B12

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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		CLINICAL PATHO	LOGY	
	URINE ROU	UTINE & MICROSCOP	PIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV by DIP STICK/REFLEC	ED TANCE SPECTROPHOTOMETRY	30	ml	
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		1.01 PKR		1.002 - 1.030
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY NATION			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLEC	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)
RED BLOOD CELLS		NEGATIVE (-ve)	/HPF	0 - 3



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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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. KIRAN BALA		
AGE/ GENDER	: 57 YRS/FEMALE	PATIENT ID	: 1673449
COLLECTED BY	:	REG. NO./LAB NO.	: 122411160014
REFERRED BY	:	REGISTRATION DATE	: 16/Nov/2024 10:38 AM
BARCODE NO.	: 12505684	COLLECTION DATE	: 16/Nov/2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 16/Nov/2024 04:48PM
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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