A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. HARJINDER KAUR				
AGE/ GENDER	: 50 YRS/FEMALE		PATIENT ID	: 1794481	
COLLECTED BY			REG. NO./LAB NO.	: 122503170026 : 17/Mar/2025 02:01 PM : 17/Mar/2025 02:01PM	
REFERRED BY			REGISTRATION DATE		
BARCODE NO.	: 12507553	COLLECTION DATE			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ΤЕ	REPORTING DATE	: 17/Mar/2025 04:22PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - H	ARYANA		
Test Name		Value	Unit	Biological Reference interv	
		HAEM	IATOLOGY		
	СОМР	LETE BI	LOOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HE	3)	12.5	gm/dL	12.0 - 16.0	
RED BLOOD CELL (I	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.04	Millions	/cmm 3.50 - 5.00	
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	35.4 ^L	%	37.0 - 50.0	
MEAN CORPUSCULA		87.6	KR fl	80.0 - 100.0	
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	30.8	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC)	35.2	g/dL	32.0 - 36.0	
RED CELL DISTRIBU	JTION WIDTH (RDW-CV)	12.7	%	11.00 - 16.00	
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	43.1	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		21.68	RATIO	BETA THALASSEMIA TRAIT 13.0 IRON DEFICIENCY ANEMIA >13.0	
GREEN & KING IND by CALCULATED		27.41	RATIO	BETA THALASSEMIA TRAIT 65.0 IRON DEFICIENCY ANEMIA 65.0	
WHITE BLOOD CEI					
	BY SF CUBE & MICROSCOPY	10080	/cmm	4000 - 11000	
by AUTOMATED 6 PAR	LOOD CELLS (nRBCS) it hematology analyzer	NIL		0.00 - 20.00	
	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	



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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	65	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0.0	0/	00.40
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	29	%	20 - 40
EOSINOPHILS	2	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
MONOCYTES	4	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0/	
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	6552	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0332	/ chilli	2000 - 7300
ABSOLUTE LYMPHOCYTE COUNT	2923 ^L	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOPHIL COUNT	202	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE	MADKEDS		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	245000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	0.25	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.2.5	70	0.10 - 0.30
MEAN PLATELET VOLUME (MPV)	10	fL	6.50 - 12.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CELL COUNT (P-LCC)	74000	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.0	0/	110 450
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	30	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW)	16.2	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	10.2	70	10.0 11.0
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			



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COLLECTED BY	:	REC	G. NO./LAB NO.	: 12250317002	6
REFERRED BY	:	REC	GISTRATION DATE	: 17/Mar/2025 02	2:01 PM
BARCODE NO.	: 12507553		LECTION DATE	: 17/Mar/2025 02	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI		PORTING DATE		
				: 17/Mar/2025 05:05PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HARYA	NA		
Test Name		Value	Unit	Biologic	cal Reference interval
ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	180.03 ^H	mg/dL	60.00 -	140.00
, ,	RMANCE LIQUID CHROMATOGRAPHY)				
, ,	AS PER AMERICAN D	IABETES ASSOCIATIO	N (ADA):		
INTERPRETATION:	AS PER AMERICAN D REFERENCE GROUP		N (ADA): SYLATED HEMOGLOGIB	(HBAIC) in %	_
INTERPRETATION:	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years		SYLATED HEMOGLOGIB <5.7	(HBAIC) in %	
INTERPRETATION:	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		SYLATED HEMOGLOGIB <5.7	(HBAIC) in %	
INTERPRETATION:	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years		SYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %	
INTERPRETATION:	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCO	SYLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years		
INTERPRETATION: Non di A	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCO Goals of T	SYLATED HEMOGLOGIB <5.7	< 7.0	
INTERPRETATION: Non di A	AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCO	SYLATED HEMOGLOGIB <5.7		

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

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

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

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

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



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AME	BALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	NTATION RATE (1	ESR)
ERYTHROCYTE SEI	ERYTHRO DIMENTATION RATE (ESR)	CYTE SEDIME	NTATION RATE (A mm/1st	·
by RED CELL AGGREC				·
by RED CELL AGGREC	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	6	mm/1st	hr 0 - 20
by RED CELL AGGREC INTERPRETATION: 1. ESR is a non-specif	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY ic test because an elevated result c	6 often indicates the	mm/1st	hr 0 - 20
by RED CELL AGGRECT INTERPRETATION: 1. ESR is a non-specifimmune disease, but	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY ic test because an elevated result of does not tell the health practitione	6 often indicates the er exactly where the	mm/1st presence of inflammat e inflammation is in the	hr 0 - 20 ion associated with infection, cancer and auto body or what is causing it.
by RED CELL AGGREC INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affer as C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY ic test because an elevated result of does not tell the health practitione cted by other conditions besides in	6 often indicates the er exactly where the flammation. For th	mm/1st presence of inflammat e inflammation is in the is reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto body or what is causing it. bically used in conjunction with other test such
by RED CELL AGGREC INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY ic test because an elevated result of does not tell the health practitione cted by other conditions besides in be used to monitor disease activity	6 often indicates the er exactly where the flammation. For th	mm/1st presence of inflammat e inflammation is in the is reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto body or what is causing it.
by RED CELL AGGREC INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affer as C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY ic test because an elevated result of does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus	6 often indicates the er exactly where the flammation. For th	mm/1st presence of inflammat e inflammation is in the is reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto a body or what is causing it. pically used in conjunction with other test suc

(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:

1. ESR and C - reactive protein (C-RP) are both markers of inflammation.

2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
4. Drugs such as devicent matching and units of two types of proteins and units of the temporary elevations.

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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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMB/		BALA CITY - HARYAN	JA	
Test Name		Value	Unit	Biological Reference interval
		DNEY FUNCTION	//BIOCHEMISTR TEST (BASIC)	
IIDE A. SEDI M		DNEY FUNCTION	TEST (BASIC)	
				10.00 - 50.00
by UREASE - GLUTAN	KII NATE DEHYDROGENASE (GLDH) JM	DNEY FUNCTION	TEST (BASIC)	
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR	KII NATE DEHYDROGENASE (GLDH) JM	DNEY FUNCTION 40.46	T EST (BASIC) mg/dL	10.00 - 50.00
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM	KII MATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM 20GEN (BUN)/CREATININE	DNEY FUNCTION 40.46 1.15	T TEST (BASIC) mg/dL mg/dL	10.00 - 50.00 0.40 - 1.20
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE	KII MATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM COTROPHOTOMETERY 20GEN (BUN)/CREATININE	DNEY FUNCTION 40.46 1.15 18.91 16.44	r TEST (BASIC) mg/dL mg/dL mg/dL RATIO	10.00 - 50.00 0.40 - 1.20 7.0 - 25.0
CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE UREA/CREATININ	KII MATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM COTROPHOTOMETERY 20GEN (BUN)/CREATININE	DNEY FUNCTION 40.46 1.15 18.91	TEST (BASIC) mg/dL mg/dL mg/dL	10.00 - 50.00 0.40 - 1.20 7.0 - 25.0





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CIT	Y - HARYANA	
Test Name	Valu	e Unit	Biological Reference interval
To Differentiate betw INCREASED RATIO (>2 1.Prerenal azotemia glomerular filtration 2.Catabolic states wit 3.Gl hemorrhage. 4.High protein intake 5.Impaired renal fund 6.Excess protein intal burns, surgery, cachey 7.Urine reabsorption 8.Reduced muscle ma 9.Certain drugs (e.g. t INCREASED RATIO (>2 1.Postrenal azotemia 2.Prerenal azotemia 2.Prerenal azotemia 3.Severe liver disease 4.Other causes of dec 5.Repeated dialysis (i 6.Inherited hyperami 7.SIADH (syndrome o 8.Pregnancy. DECREASED RATIO (<1 1.Phenacimide therap 2.Rhabdomyolysis (re 3.Muscular patients INAPPROPIATE RATIO 1.Diabetic ketoacidos should produce an in	th increased tissue breakdown. tion plus . ke or production or tissue breakdown (e.g. i kia, high fever). (e.g. ureterocolostomy) ass (subnormal creatinine production) etracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVELS: (BUN rises disproportionately more than cr uperimposed on renal disease. 10:1) WITH DECREASED BUN : biss. d starvation. treased urea synthesis. urea rather than creatinine diffuses out of e monemias (urea is virtually absent in blood) f inappropiate antidiuretic harmone) due to 10:1) WITH INCREASED CREATININE: by (accelerates conversion of creatine to create eleases muscle creatinine). who develop renal failure.	nfection, GI bleeding, thyrotoxicc eatinine) (e.g. obstructive uropat extracellular fluid). tubular secretion of urea. eatinine).	osis, Cushings syndrome, high protein diet,



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BARCODE NO.	: 12507553	COLLECTION DATE	: 17/Mar/2025 02:01PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 17/Mar/2025 06:37PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	
Test Name	Value	Unit	Biological Reference interval
	ном	OCYSTEINE	
HOMOCYSTEINE: S	ERUM 20.1 ^H	µmol/L	3.0 - 18.0

HOMOCYSTEINE: SERUM by SPECTROPHOTOMETRY

INTERPRETATION:

1. Homocysteine is a sulphur containing amino acid. There is an association between elevated levels of circulating homocysteine and various vascular and cardiovascular disorders

2.Serum Homocystein level aid in screening patients suspected of having an inherited disorder of methionine metabolism including genetic defects in vitamin cofactors (vitamin B6, B12, and folate).

3. Nutritional deficiency of B12 and folate also lead to abnormal homocysteine accumulation.

4. Homocysteine concentration is an indicator of acquired folate or cobalamin deficiency, and is a contributing factor in the pathogenesis of neural tube defects.

5. Homocystenemia was previously thought to be an independent risk factor for coronary artery disease but current understanding suggests that the use of homocysteine for assessment of cardiovascular risk is uncertain and controversial. Based on several meta-analyses, at present, homocysteine may be regarded as a weak risk factor for coronary heart disease, and there is a lack of direct causal relationship between hyperhomocysteinemia and cardiovascular disease. It is most likely an indicator of poor lifestyle and diet.

6.Specially useful in young CVD patients (< 40 yrs) In known cases of CVD, high homocysteine levels should be used as a prognostic marker for CVD events and mortality CVD patients with homocysteine levels > 15 umol/L belong to a high risk group Increased homocysteine levels with low vitamin concentrations should be handled as a potential vitamin deficiency case.

7. This test should be used in conjunction with plasma amino acids and urine organic acids to aid in the biochemical screening for primary and secondary disorders of methionine metabolism.

8.Note:-Homocysteine concentrations >13 mcmol/L are considered abnormal in patients evaluated for suspected nutritional deficiencies (B12, folate) and inborn errors of metabolism. Measurement of methylmalonic acid (MMA) distinguishes between B12 (cobalamin) and folate deficiencies, as MMA is only elevated in B12 deficiency. Response to dietary treatment can be evaluated by monitoring serum homocysteine concentrations over time.

9.Homocysteine concentrations < or =10 mcmol/L are desirable when utilized for cardiovascular risk.

10.Other factors that may influence and increase serum homocysteine include: Age, Smoking, Poor diet, Chronic renal, disease, Hypothyroidism

NOTE:

1. Medications that may increase homocysteine concentrations include: Methotrexate, Azuridine, Nitrous Oxide, Phenytoin, Carbamazepine, Oral Contraceptives

2.A fasting specimen is recommended; however, nonfasting homocysteine concentrations produce slightly higher, but likely clinically insignificant changes.

*** End Of Report ***



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