A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. AVTAR SINGH			
AGE/ GENDER	: 26 YRS/MALE		PATIENT ID	: 1601623
COLLECTED BY	:		REG. NO./LAB NO.	: 122409040009
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 04/Sep/2024 12:07 PM
BARCODE NO.	: 12504487		<b>COLLECTION DATE</b>	:04/Sep/2024 12:10PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	<b>REPORTING DATE</b>	: 04/Sep/2024 01:25PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		HAEN	<b>MATOLOGY</b>	
	COM	<b>/IPLETE B</b>	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	)	14.4	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE	C) COUNT	4.52	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUN		40.3	%	40.0 - 54.0
MEAN CORPUSCULA		89.1	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	31.9	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	35.8	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.7	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	46.5	fL	35.0 - 56.0
MENTZERS INDEX		19.71	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	Х	27.04	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C by FLOW CYTOMETRY DIFFERENTIAL LEUCO	Y BY SF CUBE & MICROSCOPY	7420	/cmm	4000 - 11000
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	44 <sup>L</sup>	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	46 <sup>H</sup>	%	20 - 40
EOSINOPHILS	/ BY SF CUBE & MICROSCOPY	3	%	1 - 6



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 





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Test Name		Value	Unit	Biological Reference interval
MONOCYTES		7	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY Y BY SF CUBE & MICROSCOPY YTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTRO		3265	/cmm	2000 - 7500
ABSOLUTE LYMPHO	Y BY SF CUBE & MICROSCOPY ICYTE COUNT IY BY SF CUBE & MICROSCOPY	3413 <sup>L</sup>	/cmm	800 - 4900
ABSOLUTE EOSINOF		223	/cmm	40 - 440
ABSOLUTE MONOCY		519	KR /cmm	80 - 880
-	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	HER PLATELET PREDICTIVE MARKE			
	PLT) FOCUSING, ELECTRICAL IMPEDENCE	305000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.29	%	0.10 - 0.36
MEAN PLATELET VO by HYDRO DYNAMIC	ULUME (MPV)	10	fL	6.50 - 12.0
PLATELET LARGE CE		77000	/cmm	30000 - 90000
PLATELET LARGE CE		25.4	%	11.0 - 45.0
PLATELET DISTRIBU	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0





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Test Name		Value	Unit	Biological Reference interval
	CLINIC	AL CHEMIST	RY/BIOCHEMISTR	Y
	LIVE	R FUNCTION T	TEST (COMPLETE)	
BILIRUBIN TOTAL: SI by diazotization, sf	ERUM PECTROPHOTOMETRY	0.48	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.37	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	25.37	R U/L	7.00 - 45.00
SGPT/ALT: SERUM		55.82 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.45	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		86.07	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	57.86 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	7.73	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.49	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spe	CTROPHOTOMETRY	3.24	gm/dL	2.30 - 3.50
A : G RATIO: SERUM	CTROPHOTOMETRY	1.39	RATIO	1.00 - 2.00

**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





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Test Name	Value	Unit	<b>Biological Reference interval</b>
INTRAHEPATIC CHOLESTATIS		> 1.5	
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	

## DECREASED:

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

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

## **PROGNOSTIC SIGNIFICANCE:**

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





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HA	ARYANA		
Test Name		Value	Unit	Biological	Reference interval
		FNDOG			
ΓΗΥΡΩΙΟ STIMULAT		ID STIMULA	TING HORMONE (TSH)		
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM SESCENT MICROPARTICLE IMMUNOASS/	ID STIMULA 1.52		0.35 - 5.50	
	ING HORMONE (TSH): SERUM SESCENT MICROPARTICLE IMMUNOASS/	ID STIMULA 1.52	<b>ATING HORMONE (TSH)</b> µIU/mL	0.35 - 5.50	7
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM iescent microparticle immunoassa rasensitive	ID STIMULA 1.52	TING HORMONE (TSH)	0.35 - 5.50 (μIU/mL)	-
by CMIA (CHEMILUMIN Brd GENERATION, ULT INTERPRETATION:	ING HORMONE (TSH): SERUM iescent microparticle immunoass/ rasensitive AGE	ID STIMULA 1.52	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE	0.35 - 5.50 (μIU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULT INTERPRETATION:	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS/ RASENSITIVE AGE 0 – 5 DAYS	ID STIMULA 1.52	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50 (μIU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULT INTERPRETATION:	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ID STIMULA 1.52	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00	0.35 - 5.50 (μIU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULT INTERPRETATION:	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ID STIMULA 1.52	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50 (µIU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULTI INTERPRETATION:	ING HORMONE (TSH): SERUM ING HORMONE (TSH): SERUM INGROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ID STIMULA 1.52	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	0.35 - 5.50 (µU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULTI INTERPRETATION:	ING HORMONE (TSH): SERUM ING HORMONE (TSH): SERUM INGROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	1.52 AY)	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE ( 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50 (µU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULTI INTERPRETATION:	ING HORMONE (TSH): SERUM ING HORMONE (TSH): SERUM INGROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ID STIMULA 1.52	ATING HORMONE (TSH)           μIU/mL           REFFERENCE RANGE           0.70 – 15.20           0.70 – 15.20           0.70 – 11.00           0.70 – 8.40           0.70 – 7.00           0.60 – 5.50           0.50 – 5.50           0.27 – 5.50	0.35 - 5.50 (µlU/mL)	
by CMIA (CHEMILUMIN Brd GENERATION, ULTI INTERPRETATION:	ING HORMONE (TSH): SERUM ING HORMONE (TSH): SERUM ING HORMONASSA RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15 > 20 Years (Adults) F 1st Trimester	1.52 AY)	ATING HORMONE (TSH) μIU/mL REFFERENCE RANGE ( 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00	0.35 - 5.50	
by CMIA (CHEMILUMIN Brd GENERATION, ULTI INTERPRETATION:	ING HORMONE (TSH): SERUM ING HORMONE (TSH): SERUM INGROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	1.52 AY)	ATING HORMONE (TSH)           μIU/mL           REFFERENCE RANGE           0.70 – 15.20           0.70 – 15.20           0.70 – 11.00           0.70 – 8.40           0.70 – 7.00           0.60 – 5.50           0.50 – 5.50           0.27 – 5.50	0.35 - 5.50 (μΙU/mL)	

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

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

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.



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 Test Name
 Value
 Unit
 Biological Reference interval

 3 DDUGG Characteristics
 14 and any statistics
 6 and any statistics

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

## LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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Test Name		Value Unit	Biological Reference interval
	V	ITAMIN B12/COBALAMIN	
		270.9 pg/mL	200.0 - 1100.0
by CMIA (CHEMILUMIN NTERPRETATION:-	LAMIN: SERUM	270.9 pg/mL	
by CMIA (CHEMILUMIN NTERPRETATION:-	LAMIN: SERUM NESCENT MICROPARTICLE IMMUNOASSAY, SED VITAMIN B12	270.9 pg/mL DECREASED VITAMIN 1.Pregnancy	NB12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro	LAMIN: SERUM NESCENT MICROPARTICLE IMMUNOASSAY, SED VITAMIN B12 nin C gen	270.9 pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants	NB12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	LAMIN: SERUM VESCENT MICROPARTICLE IMMUNOASSAY, SED VITAMIN B12 nin C gen nin A	270.9 pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion	NB12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	LAMIN: SERUM vescent microparticle immunoassay, sed vitamin B12 nin C gen nin A jury	270.9 pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion 4. Contraceptive Harmones	NB12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	LAMIN: SERUM vescent microparticle immunoassay, sed vitamin B12 nin C gen nin A jury	270.9 pg/mL DECREASED VITAMIN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion	NB12

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.

\*\*\* End Of Report \*\*\*





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