PKR JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. ARYAN JA	AIN			
AGE/ GENDER	: 22 YRS/MALE			PATIENT ID	: 1567742
COLLECTED BY	:			REG. NO./LAB NO.	: 122408010015
REFERRED BY	:			REGISTRATION DATE	: 01/Aug/2024 03:44 PM
BARCODE NO.	: 12503939			COLLECTION DATE	: 02/Aug/2024 03:33PM
CLIENT CODE.	: P.K.R JAIN HE	ALTHCARE INST	ITUTE	REPORTING DATE	: 02/Aug/2024 04:46PM
CLIENT ADDRESS	: NASIRPUR, HI	SSAR ROAD, AMI	BALA CITY - HA	RYANA	
Test Name			Value	Unit	Biological Reference interval
IRON: SERUM				STRY/BIOCHEMISTRY I PROFILE µg/dL	59.0 - 158.0
by FERROZINE, SPEC UNSATURATED IRON SERUM		CITY (UIBC)	77.97 ^L	µg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN SERUM by SPECTROPHOTON	G CAPACITY (TIB		2 <mark>02.67^L</mark>	µg/dL	230 - 430
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUI		61.53 ^H	%	15.0 - 50.0
TRANSFERRIN: SERU			143.9 ^L	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB		ANEMIA OF CHR		IRON DEFICIENCY ANEMIA	
SERUM IF		Normal to I		Reduced	Normal
TOTAL IRON BINDI	NG CAPACITY:	Decrea	ased	Increased	Normal

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.

Decreased < 12-15 %

Decreased

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 BÍNDING CAPACITY (TÍBC):

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

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

Decreased

Normal to Increased

% 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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Normal

Normal or Increased

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Test Name		Value	Unit	Biological Reference interv
		ENDO	CRINOLOGY	
	τυνρο			
			ATING HORMONE (TSH)	
	ING HORMONE (TSH): SERUM	ID STIMUL 2.042	. ATING HORMONE (TSH) µIU/mL	0.35 - 5.50
		ID STIMUL 2.042		
	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA	ID STIMUL 2.042		
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA	ID STIMUL 2.042		
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA	ID STIMUL 2.042		0.35 - 5.50
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM iescent microparticle immunoassa rasensitive	ID STIMUL 2.042	µIU/mL	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ID STIMUL 2.042	μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ID STIMUL 2.042	μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ID STIMUL 2.042	μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ID STIMUL 2.042	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 (µlU/mL)
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ID STIMUL 2.042	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
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	2.042	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
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) F	ID STIMUL 2.042	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	0.35 - 5.50
by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA 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	2.042	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 rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) F	2.042	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	0.35 - 5.50

or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. INCREASED LEVELS:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, Iodine 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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COLLECTION DATE

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: 12503939

Test Name Value Unit **Biological Reference interval**

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

LIMITATIONS:

BARCODE NO.

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
		VITA	AMINS		
		VITAMIN D/25 HY	DROXY VITAMIN D3		
•	ROXY VITAMIN D3): SERU ESCENCE IMMUNOASSAY)	JM 34.778	ng/mL		DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	g/mL	
	FICIENT:	21 - 29		g/mL	
	D RANGE:	<u>30 - 100</u> > 100		g/mL g/mL	
conversion of 7- dihy 2.25-OHVitamin D ro tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex	drocholecalciferol to Vita epresents the main body and by a transport protein rimary role in the mainte ion, skeletal calcium deponay hay lead to failure to mine	min D3 in the skin upon resevoir and transport fo n while in circulation. nance of calcium homeo osition, calcium mobilizat eralize newly formed oste	Ultraviolet exposure. rm of Vitamin D and trans statis. It promotes calciun tion, mainly regulated by p	port form n absorpti parathyroi	ol (from animals, Vitamin D3), or by of Vitamin D, being stored in adiposi on, renal calcium absorption and d harmone (PTH). hildren and osteomalacia in adults.

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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARYAN	IA	0
Test Name	I AMIN: SERUM	Value VITAMIN B12/C		Biological Reference interva
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOASS	VITAMIN B12/C 338.83		Biological Reference interva
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	IESCENT MICROPARTICLE IMMUNOASS	VITAMIN B12/C 338.83 SAY)	OBALAMIN	190.0 - 830
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS _1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C	VITAMIN B12/C 338.83 SAY) 1.Pregnancy	OBALAMIN pg/mL DECREASED VITAMIN	190.0 - 830 B12
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS _1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 hin C gen	VITAMIN B12/C 338.83 SAY) 1.Pregnancy 2.DRUGS:Asp	OBALAMIN pg/mL DECREASED VITAMIN irin, Anti-convulsants,	190.0 - 830 B12
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS _1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 hin C gen hin A	VITAMIN B12/C 338.83 SAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	OBALAMIN pg/mL DECREASED VITAMIN irin, Anti-convulsants,	190.0 - 830 B12
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOASS SED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/C 338.83 SAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	OBALAMIN pg/mL DECREASED VITAMIN irin, Anti-convulsants, stion ive Harmones ysis	190.0 - 830 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.

*** End Of Report ***





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