PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. BALWINDER KAUR				
AGE/ GENDER: 37 YRS/FEMALECOLLECTED BY:REFERRED BY:BARCODE NO.: 12505256			PATIENT ID	: 1648551	
		REG. NO./LAB NO. REGISTRATION DATE		: 122410200004 : 20/Oct/2024 12:18 PM	
		CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	REPORTING DATE
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - H	IARYANA		
Test Name		Value	Unit	Biological Reference interval	
		HAEN	MATOLOGY		
	CON	APLETE B	LOOD COUNT (CBC)		
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB))	8.9 ^L	gm/dL	12.0 - 16.0	
RED BLOOD CELL (RE	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.42	Millions/c	mm 3.50 - 5.00	
PACKED CELL VOLUN	AE (PCV)	27.5 ^L	%	37.0 - 50.0	
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		62.2 ^L		80.0 - 100.0	
MEAN CORPUSCULA	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	20.2 ^L	pg	27.0 - 34.0	
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	32.5	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	TION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	16.1 ^H	%	11.00 - 16.00	
RED CELL DISTRIBUT	TON WIDTH (RDW-SD)	38.1	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		14.07	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDE	X	22.73	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0	
WHITE BLOOD CELL	<u>S (WBCS)</u>				
TOTAL LEUCOCYTE C by FLOW CYTOMETR DIFFERENTIAL LEUC	Y BY SF CUBE & MICROSCOPY	6470	/cmm	4000 - 11000	
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	58	%	50 - 70	
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	34	%	20 - 40	
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6	

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB				
Test Name		Value	Unit	Biological Reference interval	
MONOCYTES		4	%	2 - 12	
	Y BY SF CUBE & MICROSCOPY	T	70	2 12	
BASOPHILS		0	%	0 - 1	
,	Y BY SF CUBE & MICROSCOPY				
	YTES (WBC) COUNT				
ABSOLUTE NEUTRO		3753	/cmm	2000 - 7500	
-	RY BY SF CUBE & MICROSCOPY		10,00,00	000 4000	
	Y BY SF CUBE & MICROSCOPY	2200 ^L	/cmm	800 - 4900	
ABSOLUTE EOSINOF		259	/cmm	40 - 440	
	Y BY SF CUBE & MICROSCOPY				
ABSOLUTE MONOC		259	/cmm	80 - 880	
•	RY BY SF CUBE & MICROSCOPY				
	IL COUN I RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
-	HER PLATELET PREDICTIVE MARKE	RS			
PLATELET COUNT (F		446000	/cmm	150000 - 450000	
	FOCUSING, ELECTRICAL IMPEDENCE	440000	70mm	150000 - 450000	
PLATELETCRIT (PCT)		0.36	%	0.10 - 0.36	
	FOCUSING, ELECTRICAL IMPEDENCE				
MEAN PLATELET VC	. ,	8	fL	6.50 - 12.0	
	FOCUSING, ELECTRICAL IMPEDENCE	(0000	lar	20000 00000	
PLATELET LARGE CE	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	69000	/cmm	30000 - 90000	
PLATELET LARGE CE		15.4	%	11.0 - 45.0	
	FOCUSING, ELECTRICAL IMPEDENCE	10.1	70	1110 1010	
	TION WIDTH (PDW)	15.2	%	15.0 - 17.0	
•	FOCUSING, ELECTRICAL IMPEDENCE				
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD				





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Test Name		Value	Unit	Biological Reference interval
	FRVTHR	OCYTE SEDIMENT	TATION RATE (ESI	B)
	MENTATION RATE (ESR) gation by capillary photometry	8	mm/1st h	r 0-20



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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PERIPHERAL BLOOD SMEAR

TEST NAME:

PERIPHERAL BLOOD FILM/SMEAR (PBF)

RED BLOOD CELLS (RBC'S):

Anisocytosis with micorcytosis.RBCs reveal mild hypochromia.No polychromatic cells or normoblasts noted.

WHITE BLOOD CELLS (WBC'S):

No immature leucocytes seen.

PLATELETS:

Platelets are adequate.

HEMOPARASITES:

NOT SEEN.

IMPRESSION:

Microcytic hypochromic picture.





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	DV/RIOCHEMISTD	V
	CLIN		RY/BIOCHEMISTR	Y
	CLIN	IICAL CHEMIST		Y
glucose random (r)): PLASMA			Y NORMAL: < 140.00
• •		GLUCOSE R	ANDOM (R)	

(after consumption of 75 gms of glucose) is recommended for all such patients.

3. A random glucose level of above 200 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	
	LIV	ER FUNCTIO	ON TEST (COMPLETE)		
BILIRUBIN TOTAL: SI by diazotization, sf		0.82	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.17	mg/dL	0.00 - 0.40	
	(UNCONJUGATED): SERUM	0.65	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	27.72	U/L	7.00 - 45.00	
SGPT/ALT: SERUM		<mark>22.49</mark>	U/L	0.00 - 49.00	
by IFCC, WITHOUT PY AST/ALT RATIO: SER by CALCULATED, SPE		1.23	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA		71.39	U/L	40.0 - 130.0	
GAMMA GLUTAMYL by SZASZ, SPECTROF	TRANSFERASE (GGT): SERUM	33.86	U/L	0.00 - 55.0	
TOTAL PROTEINS: SE by BIURET, SPECTRO		6.77	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.37	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM		2.4	gm/dL	2.30 - 3.50	

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

by CALCULATED, SPECTROPHOTOMETRY

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

1.82





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RATIO

1.00 - 2.00

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Test Name	Value	Unit	Biological Reference interval
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).

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



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Test Name		Value	Unit	Biological Reference interval	
		KIDNEY FUNCTI	ION TEST (BASIC)		
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	22.98	mg/dL	10.00 - 50.00	
CREATININE: SERUN by ENZYMATIC, SPEC		0.67	mg/dL	0.40 - 1.20	
BLOOD UREA NITRO	GEN (BUN): SERUM	10.74	mg/dL	7.0 - 25.0	
	GEN (BUN)/CREATININE	16.03	PATIO		

by CALCULATED, SPECTROPHOTOMET		10.71	ing/ dE	7.0 20.0
BLOOD UREA NITROGEN (BUN)/CRE	EATININE	16.03	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPECTROPHOTOMET	ERY			
UREA/CREATININE RATIO: SERUM		34.3	RATIO	
by CALCULATED, SPECTROPHOTOMET	ERY			
URIC ACID: SERUM		4.31	mg/dL	2.50 - 6.80
by URICASE - OXIDASE PEROXIDASE				



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Test Name	Val	lue Unit	Biological Reference interval
1.Prerenal azotemia i glomerular filtration 2.Catabolic states wi 3.Gl hemorrhage. 4.High protein intake 5.Impaired renal fum 6.Excess protein intal burns, surgery, cache: 7.Urine reabsorption 8.Reduced muscle m. 9.Certain drugs (e.g. t INCREASED RATIO (< 1.Postrenal azotemia s DECREASED RATIO (< 1.Acute tubular necro 2.Low protein diet an 3.Severe liver disease 4.Other causes of det 5.Repeated dialysis (6.Inherited hyperami 7.SIADH (syndrome o 8.Pregnancy. DECREASED RATIO (< 1.Phenacimide thera 2.Rhabdomyolysis (re 3.Muscular patients of INAPPROPIATE RATIO	th increased tissue breakdown.	. infection, GI bleeding, thyrotoxico PROB creatinine) (e.g. obstructive uropa f extracellular fluid). d). to tubular secretion of urea. creatinine). creatinine with certain methodolo	osis, Cushings syndrome, high protein diet,



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Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY	ROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONIN	E (T3): SERUM	1.31	ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASSAY			
THYROXINE (T4): SE		7.06	µgm/dL	4.87 - 12.60
				0.25 5 50
	ING HORMONE (TSH): SERUM iescent microparticle immunoassay	1.98	µIU/mL	0.35 - 5.50
3rd GENERATION, ULT		/		

INTERPRETATION:

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)	THYROX	INE (T4)	THYROID STIMUL	ATING 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

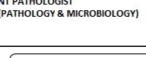


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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**





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Test Name			Value	Unit		Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECON	IMENDATIONS OF TSH L	EVELS DURING PRE	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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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS		DRTING DATE	:21/0c	t/2024 08:38AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AI	MBALA CITY - HARYAN	Α		
Test Name		Value	Unit		Biological Reference interval
	IM	MUNOPATHOLO	GY/SEROLOGY		
	ANTI TISSU	E TRANSGLUTAMIN	IASE (tTG) ANTIB	ODY IgA	
ANTI TISSUE TRANSO ANTIBODY IgA by ELISA (ENZYME LII		12.45	IU/mL		NEGATIVE: < 20.0 POSITIVE: > 20.0
B.In coeliac disease, epithelial cells by kil Deposits of anti-tT(Celiac disease (glu wheat, rye, or barle nucosa of the small CLINICAL MANIFESTA Malabsorption Diarrhea and Const CLINICAL MANIFESTA	ler cells. G in the intestinal epithelium pre- ten-sensitive enteropathy, celia y proteins that occurs in genet ntestine, which leads to villous a TIONS RELATED TO GASTROINTES ipation. TION OF CELIAC DISEASE NOT RES	edict coeliac disease. ac sprue) results from ically susceptible indi atrophy. STINAL TRACT:	an immune-mediate	ed inflamm	the destruction of intestinal villo atory process following ingestion eliac disease occurs primarily in t
2. Iron deficiency ane 3. Recurrent fetal loss 4. Osteoporosis and c 5. Recurrent aphthou 5. Dental enamel hyp 7. Patients with celia ncreased risk for dev	; hronic fatigue s stomatitis (canker sores) oplasia, and dermatitis herpetifo c disease may also present with elopment of non-Hodgkin lymph	n neuropsychiatric ma oma.		-	d peripheral neuropathy, and are mellitus, Down syndrome, and
					ly for dermatitis herpetiformis. F nt should undergo biopsy to confi
therapy. CAUTION:	-	-	-		hin 6 to 12 months of onset of diet
1.This test should n	ot be solely relied upon to est	ablish a diagnosis of	celiac disease. It sho	ould be us	ed to identify patients who have
	an	Guop	ra		

CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE





A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mrs. BALWINDER KAUR		
AGE/ GENDER	: 37 YRS/FEMALE	PATIENT ID	: 1648551
COLLECTED BY	:	REG. NO./LAB NO.	: 122410200004
REFERRED BY	:	REGISTRATION DATE	: 20/Oct/2024 12:18 PM
BARCODE NO.	: 12505256	COLLECTION DATE	: 20/Oct/2024 04:49PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 21/Oct/2024 08:38AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Test NameValueUnitBiological Reference interval

increased probability of having celiac disease and in whom a small intestinal biopsy is recommended.

2.Affected individuals who have been on a gluten-free diet prior to testing may have a negative result.

3.For individuals who test negative, IgA deficiency should be considered. If total IgA is normal and tissue transglutaminase (tTG)-IgA is negative, there is a low probability of the patient having celiac disease and a biopsy may not be necessary.

4.If serology is negative or there is substantial clinical doubt remaining, then further investigation should be performed with endoscopy and bowel biopsy. This is especially important in patients with frank malabsorptive symptoms since many syndromes can mimic celiac disease. For the patient with frank malabsorptive symptoms, bowel biopsy should be performed regardless of serologic test results.

5. The antibody pattern in dermatitis herpetiformis may be more variable than in celiac disease; therefore, both endomysial and tTG antibody determinations are recommended to maximize the sensitivity of the serologic tests.







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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN			. 20/ 00/ 2024 01.131 M
Test Name		Value	Unit	Biological Reference interva
		VITAM	NS	
		VITAMI VITAMIN B12/C		
	LAMIN: SERUM ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/C 372.7		200.0 - 1100.0
by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/C 372.7	OBALAMIN pg/mL	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/C 372.7	OBALAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen	VITAMIN B12/C 372.7 SSAY) 1.Pregnancy 2.DRUGS:Asp	OBALAMIN pg/mL DECREASED VITAMIN B irin, Anti-convulsants, Co	12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A	VITAMIN B12/C 372.7 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige:	OBALAMIN pg/mL DECREASED VITAMIN B irin, Anti-convulsants, Co stion	12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/C 372.7 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige: 4. Contracept	OBALAMIN pg/mL DECREASED VITAMIN B irin, Anti-convulsants, Co stion ive Harmones	12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/C 372.7 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige:	OBALAMIN pg/mL DECREASED VITAMIN B irin, Anti-convulsants, Co stion ive Harmones ysis	12

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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