



	٢	Dr. Vinay Chopra ID (Pathology & Microl hairman & Consultant		Dr. Y CEO & Con		thology)	
NAME	: Mrs. BALWIN	DER KAUR					
AGE/ GENDER	: 64 YRS/FEMA	LE	F	PATIENT ID	:	: 1638985	
COLLECTED BY	: SURJESH		H	REG. NO./LAB NO.	. :	: 012410090047	
REFERRED BY	:		H	REGISTRATION DA	ATE	: 09/Oct/2024 02:16 PM	
BARCODE NO.	:01518604		(COLLECTION DAT	E :	: 09/Oct/2024 02:33PM	
CLIENT CODE.	: KOS DIAGNOS	TIC LAB	I	REPORTING DATE	E :	: 09/Oct/2024 02:56PM	
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBAI	LA CANTT				
Test Name		1	Value	Uni	it	Biological Reference interv	val
			HAEMOG	ATOLOGY Lobin (HB)			
HAEMOGLOBIN (HB)		12.8	gm	n/dL	12.0 - 16.0	
by CALORIMETRIC INTERPRETATION:-							
Hemoglobin is the pr tissues back to the lu	otein molecule in	red blood cells that ca	arries oxyge	n from the lungs to	o the body	s tissues and returns carbon dioxide f	from the
A low hemoglobin lev	el is referred to a	s ANEMIA or low red b	olood count.				
ANEMIA (DECRESED	HAEMOGLOBIN):	ery, bleeding, colon c	ancer or sto	mach ulcer)			
2) Nutritional deficie	ncy (iron, vitamin	B12, folate)					
3) Bone marrow prot4) Suppression by red	d blood cell synth	t of bone marrow by c esis by chemotherapy	cancer) drugs				
5) Kidney failure		5	Ũ				
POLYCYTHEMIA (INČI	REASED HAEMOGL		llassemia).				
1) People in higher a 2) Smoking (Seconda	Ititudes (Physiolo	gical)					
3) Dehydration produ	uces a falsely rise	in hemoglobin due to	increased h	aemoconcentratio	n		
4) Advanced lung dise5) Certain tumors	ease (for example	emphysema)					
6) A disorder of the b	one marrow know	n as polycythemia rul	bra vera,				
7) Abuse of the drug chemically raising th	erythropoetin (Ep e production of re	ed blood cells).	ριορα αοριηξ	y purposes (increas	sing the an	nount of oxygen available to the body	ру

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



Page 1 of 4



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay C MD (Pathology Chairman & Co		Dr. Yugam MD (CEO & Consultant I	Pathology)
NAME	: Mrs. BALWINDER KAUR			
AGE/ GENDER	: 64 YRS/FEMALE	PATIE	NT ID	: 1638985
COLLECTED BY	: SURJESH	REG. N	O./LAB NO.	: 012410090047
REFERRED BY	:	REGIS	FRATION DATE	: 09/Oct/2024 02:16 PM
BARCODE NO.	:01518604	COLLE	CTION DATE	:09/Oct/2024 02:33PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	RTING DATE	: 09/Oct/2024 03:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIM	VICAL CHEMISTRY/I CALCIUM		
CALCIUM: SERUM by ARSENAZO III, SPE INTERPRETATION:-	ECTROPHOTOMETRY	9.24	mg/dL	8.50 - 10.60
parathyroid gland, o 2. Calcium levels ma 3.The calcium conter and <1% is present in 4. In serum, calcium present as free or ion NOTE: -Calcium ions a	r gastrointestinal tract. y also reflect abnormal vitamin ht of an adult is somewhat over n the extra-osseous intracellula is bound to a considerable exte nized calcium.	D or protein levels. 1 kg (about 2% of the body r space or extracellular sp nt to proteins (approxima art and the skeletal muscu	y weight).Of this, 999 ace (ECS). tely 40%), 10% is in t lature, and are essei	orders including diseases of bone, kidney, % is present as calcium hydroxyapatite in bone the form of inorganic complexes, and 50% is ntial for the function of the nervous system. In
1.Due to the absence 2. Chronic renal failu and skeletal resistan	N CALCIUM LEVELS) CAUSES :- e or impaired function of the pa ure is also frequently associated ce to the action of parathyroid h ristic symptom of hypocalcemia	l with hypocalcemia due to normone (PTH).	o decreased vitamin	-D synthesis as well as hyperphosphatemia
1.Increased mobiliza 2.Primary hyperpara 3.Bone metastasis of	CREASE CALCIUM LEVELS) CAUSE tion of calcium from the skeleta thyroidism (pHPT) carcinoma of the breast, prosta calcemia may result in cardiac a	al system or increased intention at a system or increased intention at a system or lung.	estinal absorption.	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

UR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



JAME AGE/ GENDER COLLECTED BY	: Mrs. BALWINDER KAUR : 64 YRS/FEMALE : SURJESH		PATIENT ID REG. NO./LAB NO.	: 1638985 : 012410090047
REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: : 01518604 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTI	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 09/Oct/2024 02:16 PM : 09/Oct/2024 02:33PM : 09/Oct/2024 03:56PM
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
	VI	AMIN D/25 H	IYDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	44.964	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DEFIC	CIENT:	< 20		ng/mL
INSUFF		21 - 29		ng/mL
	D RANGE:	30 - 100		ng/mL
I.Vitamin D compoun	CATION:	> 100 ocalciferol (from	r plants, Vitamin D2), or cho	ng/mL blecalciferol (from animals, Vitamin D3), or by





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com







		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. BALWINDER KAUR			
AGE/ GENDER	: 64 YRS/FEMALE	PATIE	NT ID	: 1638985
COLLECTED BY	: SURJESH	REG. N	0./LAB NO.	: 012410090047
REFERRED BY	:	REGIST	RATION DATE	: 09/Oct/2024 02:16 PM
BARCODE NO.	: 01518604	COLLE	CTION DATE	: 09/Oct/2024 02:33PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 09/Oct/2024 03:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITAMIN B12/COE	ALAMIN	
by CMIA (CHEMILUMI MMUNOASSAY)	ALAMIN: SERUM	VITAMIN B12/COE > 2000 ^H	ALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMI MMUNOASSAY) I <u>NTERPRETATION:-</u>		> 2000 ^H	pg/mL	
by CMIA (CHEMILUMI MMUNOASSAY) INTERPRETATION:-	INESCENT MICROPARTICLE SED VITAMIN B12	> 2000 ^H		
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen	> 2000 ^H	pg/mL ECREASED VITAMIN	I B12
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	> 2000 ^H D 1.Pregnancy 2.DRUGS:Aspirir 3.Ethanol Igestic	pg/mL ECREASED VITAMIN A, Anti-convulsants	I B12
by CMIA (CHEMILUMI MMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	> 2000 ^H D 1.Pregnancy 2.DRUGS:Aspirir 3.Ethanol Igestic 4. Contraceptive	pg/mL ECREASED VITAMIN I, Anti-convulsants In Harmones	I B12
IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	> 2000 ^H D 1.Pregnancy 2.DRUGS:Aspirir 3.Ethanol Igestic	pg/mL ECREASED VITAMIN I, Anti-convulsants In Harmones	I 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 ***





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)