



EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mrs. HARINDER KAUR		
AGE/ GENDER	: 60 YRS/FEMALE	PATIENT ID	: 1795971
COLLECTED BY	:	REG. NO./LAB NO.	: 012503180033
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 11:21 AM
BARCODE NO.	: 01527335	COLLECTION DATE	: 18/Mar/2025 12:33PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Mar/2025 04:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

## HAEMATOLOGY PERIPHERAL BLOOD SMEAR

## TEST NAME:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

#### PERIPHERAL BLOOD FILM/SMEAR (PBF)

## RED BLOOD CELLS (RBC'S):

Anisocytosis with microcytosis & oc. macrocytes. Some cells reveal mild hypochromic.. No polychromatic cells or normoblasts seen.

## WHITE BLOOD CELLS (WBC'S)

No immature leucocytes seen

#### PLATELETS:

Platelets are plenty.

# HEMOPARASITES:

NOT SEEN

#### **IMPRESSION:**

Microcytic hypochromic picture





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







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. HARINDER KAUR			
AGE/ GENDER	: 60 YRS/FEMALE	РА	TIENT ID	: 1795971
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012503180033
REFERRED BY	:	RE	GISTRATION DATE	: 18/Mar/2025 11:21 AM
BARCODE NO.	: 01527335	CO	LLECTION DATE	: 18/Mar/2025 12:33PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 18/Mar/2025 01:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	CLINICA	L CHEMISTR	RY/BIOCHEMIST	'RY
		IRON PR	OFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	75.5	μg/dL	37.0 - 145.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	303.77	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	379.27	µg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM	19.91	%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTOM INTERPRETATION:-		269.28	mg/dL	200.0 - 350.0
VARIAE	BLES ANEMIA OF CHR	ONIC DISEASE	RON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON.			

#### IRON:

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.

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 BINDING CAPACITY (TIBC):

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

% 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.



**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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





HARINDER KAUR S/FEMALE 7335 DIAGNOSTIC LAB /1, NICHOLSON ROAD, A	REG. REG COLI REP(	NO./LAB NO. : ISTRATION DATE : LECTION DATE :	1795971 012503180033 18/Mar/2025 11:21 AM 18/Mar/2025 12:33PM 18/Mar/2025 01:58PM Biological Reference interva	
7335 DIAGNOSTIC LAB	REG. REGI COLI REP( AMBALA CANTT	NO./LAB NO. : ISTRATION DATE : LECTION DATE : DRTING DATE :	012503180033 18/Mar/2025 11:21 AM 18/Mar/2025 12:33PM 18/Mar/2025 01:58PM	
DIAGNOSTIC LAB	REG COLI REP AMBALA CANTT	ISTRATION DATE : LECTION DATE : DRTING DATE :	18/Mar/2025 11:21 AM 18/Mar/2025 12:33PM 18/Mar/2025 01:58PM	
DIAGNOSTIC LAB	COLI REP( AMBALA CANTT	LECTION DATE : DRTING DATE :	18/Mar/2025 12:33PM 18/Mar/2025 01:58PM	
DIAGNOSTIC LAB	COLI REP( AMBALA CANTT	LECTION DATE : DRTING DATE :	18/Mar/2025 12:33PM 18/Mar/2025 01:58PM	
DIAGNOSTIC LAB	<b>REP</b> (	DRTING DATE :	18/Mar/2025 01:58PM	
	AMBALA CANTT			
/1, NICHOLSON ROAD, A		Unit	Biological Reference interva	
	Value	Unit	Biological Reference interva	
			5	
I: SERUM NICROPARTICLE IMMUNOAS	<b>VITAMIN B12/C</b> 339.49 SSAY)	pg/mL	190.0 - 830	
/IN B12		DECREASED VITAMIN B1	2	
	1.Pregnancy			
	2.DRUGS:Aspi	2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
		3.Ethanol Igestion		
		4. Contraceptive Harmones		
r				
ly from animal proteins 2 stores very economica	viesis and normal neur and requires intrinsic ally, reabsorbing vitam	onal function. factor (IF) for absorptior in B12 from the ileum an	nd returning it to the liver; very little is	
	ly from animal proteins 2 stores very economic be due to lack of IF secr	r 5.Haemodialy 6. Multiple M hecessary for hematopolesis and normal neur ly from animal proteins and requires intrinsic 2 stores very economically, reabsorbing vitam be due to lack of IF secretion by gastric mucos		

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.

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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)

