



		Chopra gy & Microbiology) Consultant Pathologist		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RAJWINDER KAUR : 34 YRS/FEMALE : : : 01513722 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1558927 : 012407240021 : 24/Jul/2024 09:34 AM : 24/Jul/2024 09:39AM : 24/Jul/2024 10:34AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	TRY/BIOCHEMISTR' DFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		195.03	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	143.84	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		39.54	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: S by CALCULATED, SPE		126.72	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		155.49 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		28.77	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE		533.9	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE		4.93 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Jul/2024 10:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SEF by CALCULATED, SPI		3.2 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDI		3.64	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT



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COLLECTED BY :		REG. N	O./LAB NO.	: 012407240021
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BARCODE NO. : 0151372	22	COLLE	CTION DATE	: 24/Jul/2024 09:39AM
CLIENT CODE. : KOS DIA	GNOSTIC LAB	REPOR	TING DATE	: 24/Jul/2024 01:00PM
	NICHOLSON ROAD, AMBAL			
Test Name	V	/alue	Unit	Biological Reference interva
Test Name	V	IRON PROF		Biological Reference interva
IRON: SERUM				Biological Reference interva
IRON: SERUM by FERROZINE, SPECTROPHOTOM UNSATURATED IRON BINDING (:SERUM	IETRY CAPACITY (UIBC)	IRON PROF	ILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOM UNSATURATED IRON BINDING (:SERUM by FERROZINE, SPECTROPHOTOM TOTAL IRON BINDING CAPACITY :SERUM	IETRY CAPACITY (UIBC)	IRON PROF 25.19 ^L	LE μg/dL	50.0 - 170.0
IRON: SERUM by Ferrozine, spectrophotom UNSATURATED IRON BINDING (:SERUM by Ferrozine, spectrophotom TOTAL IRON BINDING CAPACITY	IETRY CAPACITY (UIBC) IETERY ((TIBC) SERUM	IRON PROF 25.19 ^L 361.37 ^H	ILE μg/dL μg/dL	50.0 - 170.0 150.0 - 336.0

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

IRON:

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.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia is the deficiency anemia in the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia in the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency and the deficiency anemin and the deficiency and the deficiency and the deficiency an

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.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 24/Jul/2024 02:41PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		FERF	RITIN	
ERRITIN: SERUM	ESCENCE IMMUNOASSAY)	4.35 ^L	ng/mL	10.0 - 290.0

concentration. In the presence of inflammation, persons with low serum ferritin are likely to respond to iron therapy.

DECREASED:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1. Iron depletion appears to be the only condition associated with reduced serum ferritin concentrations.

- 2. Hypothyroidism.
- 3. Vitamin-C deficiency

INCREASED FERRITIN DUE TO IRON OVERLOAD (PRIMARY):

1. Hemochromatosis or hemosiderosis.

2. Wilson Disease

INCREASED FERRITIN DUE TO IRON OVERLOAD (SECONDARY):

- 1. Transfusion overload
- 2. Excess dietary Iron
- 3. Porphyria Cuťanea tada

4. Ineffective erythropoiesis. INCREASED FERRITIN WITHOUT IRON OVERLOAD:

- 1. Liver disorders (NASH) or viral hepatitis (B/C)
- 2. Inflammatory conditions (Ferritin is a acute phase reactant) both acute and chronic.
- 3. Leukaemia, hodgkin's disease.
- 4. Alcohol excess.

5. Other malignancies in which increases probably reflect the escape of ferritin from damaged liver cells, impaired clearance from the plasma, synthesis of ferritin by tumour cells.

6. Ferritin levels below 10 ng/ml have been reported as indicative of iron deficiency anemia.

NOTE: 1. As Ferritin is an acute phase reactant, it is often raised in both acute and chronic inflammatory condition of the body such as infections leading to false positive results. It can thererfore mask a diagnostically low result. In such Cases serum ferritin levels should always be correlated with C-Reactive proteins to rule out any inflammatory conditions. 2. Patients with iron deficiency anaemia may occasionally have elevated or normal ferritin levels. This is usually seen in patients already receiving iron

therapy or in patients with concomitant hepatocellular injury.



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BARCODE NO.	: 01513722	C	COLLECTION DATE	: 24/Jul/2024 09:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 24/Jul/2024 10:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			LOGY/SEROLOGY	AL
	DY (HCV) TOTAL: SERUM ESCENT MICROPARTICLE IMMUNOA	0.06 SSAY)	S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00
HEPATITIS C ANTIBO RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	DY (HCV) TOTAL escent microparticle immunoa	NON - REAC	CTIVE	
	SULT (INDEX)		REMARKS	
	< 1.00		NON - REACTIVE/NOT - DET	
Henatitis C (HCV) is a	> = 1.00		MPTOMATIC/INFECTIVE ST	ATE/CARRIER STATE. Itation, injection drug abusers, accidental
needle punctures in h compared to HAV & H HCV for HCV infection USES:	pealthcare workers, dialysis pati- IBV, chronic infection with HCV is > 99% whereas in low risk po- present infection, but does not	ents and rarely fror occurs in 85 % of ir opulations it is only	n mother to infant. 10 % nfected individuals. In hig 25 %.	of new cases show sexual transmission. As h risk population, the predictive value of Anti

2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNĂ PCR recommended in all reactive results to differentiate between past and present infection.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ANTI TISSU	E TRANSGLUT	AMINASE (tTG) ANTIB	ODY IgA
ANTI TISSUE TRANS		9.18	IU/mL	NEGATIVE: < 20.0
ANTIBODY IgA			10,1112	POSITIVE: > 20.0
by ELISA (ENZYME LI NTERPRETATION:	NKED IMMUNOASSAY)			
.Failure to grow (de Liron deficiency and Recurrent fetal los Osteoporosis and	ITION OF CELIAC DISEASE NOT RE layed puberty and short stature) emia s chronic fatigue	STRICTED TO GIT:		
Dental enamel hyp	us stomatitis (canker sores) poplasia, and dermatitis herpetifi ac disease may also present wit		ric manifestations includin	g ataxia and peripheral neuropathy, and are a
ncreased risk for dev	velopment of non-Hodgkin lymph	noma.		I diabetes mellitus, Down syndrome, and Ig
1.The finding of tiss				and possibly for dermatitis herpetiformis. For d the patient should undergo biopsy to confirm
	adhere to a gluten-free diet, the	unit value of IgA-	anti-tTG should begin to de	ecrease within 6 to 12 months of onset of dietar
L.This test should r ncreased probabilit	not be solely relied upon to est y of having celiac disease and in s who have been on a gluten-free	whom a small in	testinal biopsy is recomme	
	an	_	hopra	

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Test Name		Value Unit	Biological Reference interval

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	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
Test Name	HEPATIT	Value Unit	
SERUM	CE ANTIGEN (HBsAg):	TIS B SURFACE ANTIGEN (HBsAg) 0.19 S/CO	
HEPATITIS B SURFA SERUM <i>by CMIA (CHEMILUMII</i> HEPATITIS B SURFA RESULT		TIS B SURFACE ANTIGEN (HBsAg) 0.19 S/CO SSAY) NON REACTIVE	ULTRA NEGATIVE: < 1.0
HEPATITIS B SURFA(SERUM <i>by CMIA (CHEMILUMII</i> HEPATITIS B SURFA(RESULT <i>by CMIA (CHEMILUMII</i> INTERPRETATION:	CE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS CE ANTIGEN (HBSAg) NESCENT MICROPARTICLE IMMUNOAS	TIS B SURFACE ANTIGEN (HBsAg) 0.19 S/CO SSAY) NON REACTIVE	ULTRA NEGATIVE: < 1.0
HEPATITIS B SURFA(SERUM <i>by CMIA (CHEMILUMII</i> HEPATITIS B SURFA(RESULT <i>by CMIA (CHEMILUMII</i> <u>INTERPRETATION:</u> RESU	CE ANTIGEN (HBsAg): Nescent microparticle immunoas CE ANTIGEN (HBsAg)	TIS B SURFACE ANTIGEN (HBsAg) 0.19 S/CO SSAY) NON REACTIVE	ULTRA NEGATIVE: < 1.0 POSITIVE: > 1.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	VI	AMIN D/25 H	YDROXY VITAMIN D3	
		00.4		
by CLIA (CHEMILUMINI	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	39.4	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHÉMILUMINI INTERPRETATION: DEFIC	ESCENCE IMMUNOASSAY)	< 20		INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHÉMILUMINI <u>NTERPRETATION:</u> DEFIC INSUFF	ESCENCE IMMUNOASSAY) CIENT: FICIENT:	< 20 21 - 29	n	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHÉMILUMINI INTERPRETATION: DEFIC INSUFI PREFFERE INTOXI 1.Vitamin D compour	ESCENCE IMMUNOASSAY) CIENT: FICIENT: D RANGE: CATION:	< 20 21 - 29 30 - 100 > 100 ocalciferol (from	n n n plants, Vitamin D2), or chc	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0





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				: Mrs. RAJWINDER KAUR	AME
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nce interval	Biological Reference	Unit	Value		est Name
			SAY)	ESCENT MICROPARTICLE IMMUNOASSA	ITERPRETATION:-
	B12	DECREASED VITAMIN	1.5	ED VITAMIN B12	
	Colchicipo	pirin Anti convulcante (1.Pregnancy		1.Ingestion of Vitam
	solemente				
			5.Haemodia		5.Myeloproliferativ
			6. Multiple		6.Uremia
	ion.	tive Harmones lysis Ayeloma ronal function. c factor (IF) for absorpti	2.DRUGS:As 3.Ethanol Ig 4. Contrace 5.Haemodia 6. Multiple esis and normal neu and requires intrins	jen in A ury	2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal In humans, it is obt

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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