



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. PARAMJIT			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1558190
COLLECTED BY	:		REG. NO./LAB NO.	: 042407230008
REFERRED BY	: NAGPAL HOSPITAL (SHAHBAD)		REGISTRATION DATE	: 23/Jul/2024 02:10 PM
BARCODE NO.	: A0465034		COLLECTION DATE	: 23/Jul/2024 03:36PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 23/Jul/2024 04:22PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	SALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINICA	L CHEMIS	TRY/BIOCHEMIST	RY
		LIPID PRO	DFILE : BASIC	
CHOLESTEROL TOTA		285.74 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O	KIDASE PAP			BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF		283.96 ^H	mg/dL	OPTIMAL: < 150.0
	PHATE OXIDASE (ENZYMATIC)	203.90	ing/ de	BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
		5/ 54		VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (56.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 -
				60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: S by CALCULATED, SPI		172.44 ^H	mg/dL	OPTIMAL: < 100.0
by CALCOLATED, SPI	eerkornoromerki			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		229.23 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPI	ECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL		56.79 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPI TOTAL LIPIDS: SERU		855.44 ^H	mg/dL	350.00 - 700.00
by CALCULATED, SPI				330.00 700.00
CHOLESTEROL/HDL	RATIO: SERUM	5.06 ^H	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPI				AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0



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, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com

Page 1 of 6

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SEF by CALCULATED, SPI	RUM ECTROPHOTOMETRY	3.05 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HD		5.02 ^H	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.

3. 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. 4. 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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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







NAME	Chairman & Con	suitant l'atholog	ist CEO & Consultant	
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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 23/Jul/2024 06:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, J	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	CREATIN	IINE PHOSPH	IOKINASE (CPK-NAC) TO	DTAL
CREATININE PHOSPH (CPK-NAC) by SPECTROPHOTON		61.77	IU/L	24 - 190

Interpretation:-

1.Serum creatine kinase (CK) activity is greatly elevated, at some time during the course of the disease, in all types of muscular dystrophy, and especially so in Duchenne type, in which levels up to 50 times the upper limit of normal may be encountered.

2.In progressive muscular dystrophy, enzyme activity in serum is highest in infancy and childhood (7-10 years of age) and may be elevated long before the disease is clinically apparent.

3. Quite high values of CK are noted in viral myositis, polymyositis, and similar muscle diseases.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

4. However, in neurogenic Parkinsonism, serum enzyme activity is normal. Very high activity is also encountered in malignant hyperthermia. *Significance:-*

1.An early rise in CK is also seen after an acute MI, with values peaking at 12 to 24 hours and falling back to normal in 3 to 4 days.

2.Although total CK activity has been used as a diagnostic test for MI, it has been replaced by the troponin T and I immunoassays, and is no longer the laboratory test choice for diagnosing and monitoring acute infarctions.

3.Serum CK activity may increase in patients with acute cerebrovascular disease or neurosurgical intervention and with cerebral ischemia.

4.Serum CK activity also demonstrates an inverse relationship with thyroid activity. About 60% of hypothyroid subjects show an average elevation of CK activity 5-fold over the upper reference limit; elevation of as high as 50-fold may also be found.

Note: Exercise and muscle trauma (contact sports, traffic accidents, intramuscular injections, surgery, convulsions, wasp or bee stings, and burns) can elevate serum creatine kinase values.





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

 www.koshealthcare.com



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	IMI	MUNOPATI	HOLOGY/SEROLOGY	
	ANTI NU	ICLEAR ANTI	BODY/FACTOR (ANA/A	ANF)
	IBODIES (ANA): SERUM vked immunoassay)	0.63	INDEX VA	ALUE NEGATIVE: < 1.0 BORDERLINE: 1.0 - 1.20 POSITIVE: > 1.20

INTERPRETATION:-

1.For diagnostic purposes, ANA value should be used as an adjuvant to other clinical and laboratory data available.

2.Measurement of antinuclear antibodies (ANAs) in serum is the most commonly performed screening test for patients suspected of having a systemic rheumatic disease, also referred to as connective tissue disease.

3.ANAs occur in patients with a variety of autoimmune diseases, both systemic and organ-specific. They are particularly common in the systemic rheumatic diseases, which include lupus erythematosus (LE), discoid LE, drug-induced LE, mixed connective tissue disease, Sjogren syndrome scleroderma (systemic sclerosis), CREST (calcinosis, Raynaud's phenomenon, esophageal dysmotility, sclerodactyly, telangiectasia) syndrome, polymyositis/dermatomyositis, and rheumatoid arthritis.

NOTE:

1. The diagnosis of a systemic rheumatic disease is based primarily on the presence of compatible clinical signs and symptoms. The results of tests for autoantibodies including ANA and specific autoantibodies are ancillary. Additional diagnostic criteria include consistent histopathology or specific radiographic findings. Although individual systemic rheumatic diseases are relatively uncommon, a great many patients present with clinical findings that are compatible with a systemic rheumatic disease ANA screening may be useful for ruling out the disease.

2.Secondary, disease specific auto antibodies maybe ordered for patients who are screen positive as ancillary aids for the diagnosis of specific auto-immune disorders.





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

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



Page 4 of 6





		r Chopra ogy & Microbiology) Consultant Patholog		Dr. Yugam MD (& Consultant	Pathology)	
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CLIENT CODE.	: KOS DIAGNOSTIC SHAH	BAD	REPORTING	DATE	: 23/Jul/2024 04	I:53PM
LIENT ADDRESS	: 6349/1, NICHOLSON RC)AD, AMBALA CANT	Т			
Test Name		Value		Unit	Biologi	cal Reference interval
			TAMINS			
		VITAMIN D/25 I	HYDROXY VIT			
	ROXY VITAMIN D3): SERUN <i>escence immunoassay)</i>	1 74.7		ng/mL	INSUFF SUFFIC	ENCY: < 20.0 TCIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0 TY: > 100.0
NTERPRETATION:		20				7
	CIENT: FICIENT:	< 20 21 - 29		5	/mL /mL	
	ED RANGE:	30 - 100		0	/mL	
1. Vitamin D compour conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bou 3. Vitamin D plays a p ohosphate reabsorpt 4. Severe deficiency n DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advar 5. Osteoporosis and S 5. Enzyme Inducing di INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION : Replaceme hypervitaminosis D	malabsorption (celiac disea Vitamin D 25- hydroxylase a need Liver disease econdary Hyperparathroidi rugs: anti-epileptic drugs lik D is Rare, and is seen only af a and hyperphophatemia. ent therapy in deficient indiv individuals as compare to wh	in D3 in the skin upc sevoir and transport while in circulation. ince of calcium hom tion, calcium mobili alize newly formed c ase) activity sm (Mild to Modera e phenytoin, phenot ter prolonged expos riduals must be mon	on Ultraviolet ex form of Vitamin peostatis. It pror zation, mainly r osteoid in bone, te deficiency) parbital and carl sure to extremel itored by period	n D2), or chold posure. n D and transp equlated by p resulting in rid pamazepine, t ly high doses o lic assessment	ort form of Vitami absorption, renal arathyroid harmor ckets in children ar hat increases Vitar of Vitamin D. Wher of Vitamin D level	n D, being stored in adipose calcium absorption and le (PTH). nd osteomalacia in adults. nin D metabolism. n it occurs, it can result in s in order to prevent

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)

MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
		VITAMIN B12/	COBALAMIN	
VITAMIN B12/COBA	LAMIN: SERUM	VITAMIN B12/0 874	COBALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMIN	LAMIN: SERUM iescent microparticle immunoas	874		190.0 - 890.0
by CMIA (CHEMILUMIN INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOAS	874	pg/mL	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	IESCENT MICROPARTICLE IMMUNOAS	874 SAY)	pg/mL DECREASED VITAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C	874 SAY)	pg/mL DECREASED VITAMIN	I B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen	874 SAY) 1.Pregnancy 2.DRUGS:As	pg/mL DECREASED VITAMIN pirin, Anti-convulsants	I B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen nin A	874 SAY) 1.Pregnancy 2.DRUGS:As 3.Ethanol Ig	pg/mL DECREASED VITAMIN pirin, Anti-convulsants	I B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C gen nin A jury	874 SAY) 1.Pregnancy 2.DRUGS:As 3.Ethanol Ig	pg/mL DECREASED VITAMIN pirin, Anti-convulsants estion pive 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)

