



	M	r. Vinay Chop D (Pathology & M nairman & Consult	icrobiology)	Dr. Yugam MD (CEO & Consultant I	Pathology)
NAME	: Mrs. SARAVJE	ET KAUR			
AGE/ GENDER	: 44 YRS/FEMAL	Æ	P	PATIENT ID	: 1610570
COLLECTED BY	:		R	REG. NO./LAB NO.	: 042409120004
REFERRED BY	:		R	REGISTRATION DATE	: 12/Sep/2024 11:08 AM
BARCODE NO.	: A0465486		C	COLLECTION DATE	: 12/Sep/2024 03:29PM
CLIENT CODE.	: KOS DIAGNOS	ГІС SHAHBAD	R	REPORTING DATE	: 12/Sep/2024 04:29PM
CLIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, AM	IBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		CLINIC	AL CHEMIST	RY/BIOCHEMISTRY	
			CHOLESTER	ROL: SERUM	
CHOLESTEROL TOTA by CHOLESTEROL O			183.06	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
INTERPRETATION:					

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

NOTE:

 More.
 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.
 As per National Lipid association - 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.





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







	Dr. Vinay Cl MD (Pathology C Chairman & Col		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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Test Name		Value	Unit	Biological Reference interval
		URIC A	CID	
URIC ACID: SERUM				2.50 - 6.80
by URICASE - OXIDAS <u>INTERPRETATION:-</u> 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary	high levels of Uric Acid in the b product of purine metabolism . crobial degradation. D PRODUCTION:- gout.	3.79 lood cause crystals to Uric acid is excreted	mg/dL form & accumulate ard	2.50 - 6.80 ound a joint. e kidneys and to a smaller degree in the
INTERPRETATION:- 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary 2.Excessive dietary p 3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia (B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (I 5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I	high levels of Uric Acid in the b product of purine metabolism . crobial degradation. D PRODUCTION:- gout. urines (organ meats,legumes,an t of malignancies especially leuk & myeloid metaplasia. etc. D EXCREATION (BY KIDNEYS) ess than 2 grams per day). sis or starvation. o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease.	3.79 lood cause crystals to Uric acid is excreted chovies, etc).	mg/dL form & accumulate ard	ound a joint.





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Test Name			Value	Unit	Biological Reference interval	
			IRON	PROFILE		
IRON: SERUM			62.8	μg/dL	37.0 - 145.0	
by FERROZINE, SPECTROPHOTOMETRY UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM		CITY (UIBC)	252.11	μg/dL	150.0 - 336.0	
by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC) :SERUM			314.91	μg/dL	230 - 430	
by SPECTROPHOTOMETERY %TRANSFERRIN SATURATION: SERUM by CALCULATED, SPECTROPHOTOMETERY (FERENE)		19.94	%	15.0 - 50.0		
TRANSFERRIN: SERL	JM		223.59	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAE	BLES RON:	ANEMIA OF CHRO Normal to R		IRON DEFICIENCY ANEMIA Reduced	A THALASSEMIA α/β TRAIT Normal	

Normal to Reduced	Reduced	Normal
Decreased	Increased	Normal
Decreased	Decreased < 12-15 %	Normal
Normal to Increased	Decreased	Normal or Increased
	Decreased Decreased	DecreasedIncreasedDecreasedDecreased < 12-15 %

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.

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):

 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	RE	PORTING DATE	: 15/Sep/2024 08:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
ŀ	ANTI NUCLEAR ANTIBODY/F/	SPECIAL INVE ACTOR (ANA/A		TO TITRES: IFA (HEP-2)
ANTI NUCLEAR ANTII	BODY (ANA) - IFA, HEp2 RESCENT ASSAY)	NEGATIVE (-\	/e)	NEGATIVE (-ve)
INTERPRETATION:				
1.Anti Nuclear antibo	dy (ANA) in dilutions is recommer	nded for all positiv	e results and follow up	
	e microscopy using human cellula ous cellular proteins and nucleic		-2 cells is a sensitive te	st for detection of serum antibodies that react
3.Test conducted on S	ierum			
INTERPRETATION GUI	DELINES : (Sample screening Dilutic	on - 1·100)·		
Negative : No Immuno		, in a 1.100).		
+ : Weak Positive (1:1				
++ : Moderate Positive				
+++ : Strong Positive (1:1000)			
++++ : Very strong Pos	sitive (1:3200)			
COMMENTS				

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

Anti Nuclear antibody (ANA / ANF) is a group of autoantibodies directed against constituents of cell nuclei including DNA, RNA & various nuclear proteins. These autoantibodies are found with high frequency in patients with connective tissue disorders specially SLE. Since positive ANA results have been reported in healthy individuals, these reactivities are not by themselves diagnostic but must be correlated with other laboratory and clinical findings.

PATTERN	DISEASE ASSOCIATION			
NUCLEAR				
Homogenous	SLE & other connective tissue disorders, Drug induced SLE			
Peripheral	SLE & other connective tissue disorders			
Speckled Coarse	Mixed connective Tissue Disorders (MCTD), Scleroderma-Polymyositis Overlap Syndrome, Raynauds Phenomenon, Psoariasis, Sjogrens Syndrome, Systemic Sclerosis.			





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Test Name	Value	Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference inte				
Speckled Fine	SLE,Sjogrens syndrome,Sclerode						
NUCLEAR DOTS							
Few		Auto-immune & Viral disease- Primary Biliay Cirrhosis & Chronic Active Hepatitis, Rarely Collagen Vascular disease					
Multiple	Primary Biliary Cirrhosis (>30%)						
Centromere	CREST syndrome, Progresive Systemic Sclerosis						
NUCLEOLAR							
Homogeneous	Scleroderma, Myositis, Raynauds Phenomena, SLE & Rheumatoid arthiritis						
Clumpy	Systemic sclerosis & Scleroderma						
CYTOPLASMIC							
Mitochondrial	Primary Biliary Cirrhosis, Scleroderma & Overlap syndrome						
Ribosomal	SLE (10-20%)						

*** End Of Report ***





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