

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Mrs. SHAVI GUPTA			
AGE/ GENDER	: 32 YRS/FEMALE		PATIENT ID	: 1604963
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409070021
REFERRED BY	:		REGISTRATION DATE	: 07/Sep/2024 08:54 AM
BARCODE NO.	:01516474		COLLECTION DATE	: 07/Sep/2024 08:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Sep/2024 09:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: DT	
			DOD COUNT (CBC)	
RED BLOOD CELLS (RE	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		10.9 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC	C) COUNT	4.4	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUM		34.3 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR		77.9 ^L	fL	80.0 - 100.0
MEAN CORPUSCULAR	HAEMOGLOBIN (MCH)	24.7 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR	HEMOGLOBIN CONC. (MCHC)	31.7 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTIO	ON WIDTH (RDW-CV) TOMATED HEMATOLOGY ANALYZER	15.2	%	11.00 - 16.00
RED CELL DISTRIBUTION		44.3	fL	35.0 - 56.0
MENTZERS INDEX		17.7	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		26.83	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			itter bei telever Anelvia. 203.0
TOTAL LEUCOCYTE CC	· · · ·	9200	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLOO	DD CELLS (nRBCS) % itomated hematology analyzer	NIL	%	< 10 %
		60	0/	50 70
	BY SF CUBE & MICROSCOPY	62	%	50 - 70



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







Dr. Yugam Chopra

	MD (Pathology & Mi Chairman & Consult			(Pathology) Pathologist	
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CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD, AM	DALA CANTI			
Test Name		Value	Unit	Biological Reference i	
LYMPHOCYTES		30	%	20 - 40	
	Y BY SF CUBE & MICROSCOPY		0/		
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6	
MONOCYTES	T BT SF COBE & MICKOSCOF T	6	%	2 - 12	
	Y BY SF CUBE & MICROSCOPY	0	10	2 12	
BASOPHILS		0	%	0 - 1	
	Y BY SF CUBE & MICROSCOPY				
ABSOLUTE LEUKOCY					
ABSOLUTE NEUTRO		5704	/cmm	2000 - 7500	
ABSOLUTE LYMPHO	Y BY SF CUBE & MICROSCOPY CYTE COUNT	2760	/cmm	800 - 4900	
	Y BY SF CUBE & MICROSCOPY	2700	/ diliti	000 4700	
ABSOLUTE EOSINOP	PHIL COUNT	184	/cmm	40 - 440	
	Y BY SF CUBE & MICROSCOPY				
ABSOLUTE MONOCY	YTE COUNT Y BY SF CUBE & MICROSCOPY	552	/cmm	80 - 880	
ABSOLUTE BASOPHI		0	/cmm	0 - 110	
	Y BY SF CUBE & MICROSCOPY	Ŭ	/ dimin	0 110	
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>			
PLATELET COUNT (P		357000	/cmm	150000 - 450000	
	FOCUSING, ELECTRICAL IMPEDENCE				
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.37 ^H	%	0.10 - 0.36	
MEAN PLATELET VO		10	fL	6.50 - 12.0	
	FOCUSING, ELECTRICAL IMPEDENCE				
PLATELET LARGE CE	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	103000 ^H	/cmm	30000 - 90000	
PLATELET LARGE CE		28.9	%	11.0 - 45.0	
	FOCUSING, ELECTRICAL IMPEDENCE	20.7			
PLATELET DISTRIBU	· · · ·	16.1	%	15.0 - 17.0	
	FOCUSING, ELECTRICAL IMPEDENCE				
NOTE: TEST CONDU	JCTED ON EDTA WHOLE BLOOD				

Dr. Vinay Chopra





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

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interval





	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD (CEO & Consultant	(Pathology)
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BARCODE NO.	:01516474	CO	LLECTION DATE	: 07/Sep/2024 08:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 07/Sep/2024 09:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIME	NTATION RATE (ESF	?)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	43 ^H	mm/1st h	r 0 - 20
1. ESR is a non-specif	does not tell the health practition	oner exactly where th	e inflammation is in the	on associated with infection, cancer and auto- body or what is causing it. vically used in conjunction with other test such

CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:





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

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ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 07/Sep/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	TING (F)	
			mg/dL	

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A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 07/Sep/2024 11:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTA	L: SERUM	161.34	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		, i i i i i i i i i i i i i i i i i i i	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	206.41 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM	47.7	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI				BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S	SERLIM	72.36	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE		12100	ing, ac	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE	ROL: SERUM	113.64	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		41.28	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN		529.09	mg/dL	350.00 - 700.00
by CALCULATED, SPE		527.09	ilig/uL	330.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE		3.38	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER	UM	1.52	RATIO	LOW RISK: 0.50 - 3.0
by CALCULATED, SPE	CTROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.33	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 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al			. 077 Sept 2024 11.00 MM
	. 0340/ 1, MonoLSon Road, A			
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION	I TEST (COMPLETE)	
BILIRUBIN TOTAL: S by diazotization, SI		0.34	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.07	mg/dL	0.00 - 0.40
	(UNCONJUGATED): SERUM	0.27	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	15.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	20.6	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	UM	0.74	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		116.19	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	25.13	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	7.27	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.36	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		2.91	gm/dL	2.30 - 3.50
A : G RATIO: SERUM	I	1.5	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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INTERPRETATION





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Test Name		Value	Unit	Biolog	ical Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6

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	KI	ONEY FUNCTION	I TEST (COMPLETE)	
UREA: SERUM		20.7	mg/dL	10.00 - 50.00
•	ATE DEHYDROGENASE (GLDH)	0.40	ma/dl	0.40, 1.20
CREATININE: SERUN by ENZYMATIC, SPEC		0.68	mg/dL	0.40 - 1.20
	GEN (BUN): SERUM	9.67	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE		14.22	RATIO	10.0 - 20.0
RATIO: SERUM		1	1	10.0 20.0
		20.44	DATIO	
UREA/CREATININE I by CALCULATED, SPE	RATIO: SERUIVI ECTROPHOTOMETRY	30.44	RATIO	
URIC ACID: SERUM		4.46	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	10.27	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	10.27	Thy/UL	0.50 - 10.00
PHOSPHOROUS: SEF		3.95	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
sodium: serum		139.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	137.0		
POTASSIUM: SERUN		3.89	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUM	ie eleutrudej	104.85	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	,			
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	118.6		
(eGFR): SERUM				

by CALCULATED

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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3001.2000 CENT										
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AME	: Mrs. SHAV	I GUPTA								
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	. SUIGESII									
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LIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DATE	E	:07/Sep/202	4 11:05A	М		
LIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AME	ALA CANTT							
est Name			Value	Uni	it	Biol	ogical Re	eferenc	e interv	al
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DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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









	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) M[m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. SHAVI GUPTA		
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1604963
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409070021
REFERRED BY	:	REGISTRATION DATE	: 07/Sep/2024 08:54 AM
BARCODE NO.	:01516474	COLLECTION DATE	: 07/Sep/2024 08:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 07/Sep/2024 11:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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







	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mrs. SHAVI GUPTA			
AGE/ GENDER	: 32 YRS/FEMALE]	PATIENT ID	: 1604963
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BARCODE NO.	:01516474	(COLLECTION DATE	: 07/Sep/2024 08:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 07/Sep/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		FER	RITIN	
FERRITIN: SERUM		26.5	ng/mL	4.63 - 204.0

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

INTERPRETATION:

Serum ferritin appears to be in equilibrium with tissue ferritin and is a good indicator of storage iron in normal subjects and in most disorders. In patients with some hepatocellular diseases, malignancies and inflammatory diseases, serum ferritin is a disproportionately high estimate of storage iron because serum ferritin is an acute phase reactant. In such disorders iron deficiency anemia may exist with a normal serum ferritin concentration. In the presence of inflammation, persons with low serum ferritin are likely to respond to iron therapy. DECREASED:

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

- 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 Cutanea 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:

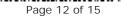
1. As Ferritin is an acute phase reactant, it is often raised in both acute and chronic inflammatory condition of the body such as infections leading to false positive results. It can thererfore mask a diagnostically low result. In such Cases serum ferritin levels should always be correlated with C-Reactive

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.



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

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







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NAME	: Mrs. SHAVI GUPTA			
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CLIENT CODE.	ENT CODE. : KOS DIAGNOSTIC LAB		TING DATE	:07/Sep/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	SALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRINOL	OGY	
	ТНУ	ROID FUNCTION T	EST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	(T3): SERUM escent microparticle immunoassay,	0.942	ng/mL	0.35 - 1.93
THYROXINE (T4): SEF by CMIA (CHEMILUMIN	RUM ESCENT MICROPARTICLE IMMUNOASSAY,	6.24	µgm/dL	4.87 - 12.60
	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY,	1.415	μIU/mL	0.35 - 5.50
by CMIA (CHEMILUMIN	RASENSITIVE			

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	NE (T4)	THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	





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







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NAME	: Mrs. SHAVI GUPTA		
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Test Name	Valu	e Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference interva
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	MENDATIONS OF TSH LE	EVELS DURING PREC	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pat	n ay Chopra hology & Microbiology) n & Consultant Pathologis		(Pathology)
AME	: Mrs. SHAVI GUPTA			
GE/ GENDER	: 32 YRS/FEMALE		PATIENT ID	: 1604963
OLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409070021
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		- I ROAD, AMBALA CANTT		
	,			
est Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
TAMIN D (25-HYDR	OXY VITAMIN D3): SEF	RUM 26.6 ^L	ng/mL	DEFICIENCY: < 20.0
	SCENCE IMMUNOASSAY		.	INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
<u>Nterpretation:</u> Defici	FNT:	< 20	n	g/mL
INSUFFI		21 - 29		g/mL
PREFFERED INTOXIC		30 - 100 > 100		g/mLg/mL
.25-OHVitamin D rep ssue and tightly bour .Vitamin D plays a pri hosphate reabsorptic .Severe deficiency ma ECREASED : .Lack of sunshine exp. .Inadeguate intake, n .Depressed Hepatic V .Secondary to advanc .Osteoporosis and Sec .Enzyme Inducing dru VCREASED : . Hypervitaminosis D evere hypercalcemia a AUTION : Replacemen ypervitaminosis D	presents the main body of by a transport prote mary role in the maint n, skeletal calcium der y lead to failure to mir osure. halabsorption (celiac d itamin D 25- hydroxyla ed Liver disease condary Hyperparathro gs: anti-epileptic drugs is Rare, and is seen onl and hyperphophatemia t therapy in deficient ir <i>dividuals as compare to</i>	in while in circulation. enance of calcium home position, calcium mobilizi neralize newly formed os isease) se activity pidism (Mild to Moderate i like phenytoin, phenoba y after prolonged exposu	Form of Vitamin D and trans costatis. It promotes calciur ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine, ure to extremely high doses ored by periodic assessmen	port form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in at of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which
			eport ***	

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

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

