



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		Pathology)
NAME	: Mrs. SHIVANI			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1563496
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407280071
REFERRED BY	:		REGISTRATION DATE	: 28/Jul/2024 01:56 PM
BARCODE NO.	: 01514006		COLLECTION DATE	: 28/Jul/2024 01:57PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Jul/2024 02:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WF	LLNESS PANEL: 1.5	
			DOD COUNT (CBC)	
	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		مما	gm/dL	12.0 - 16.0
by CALORIMETRIC		8.9 ^L		
RED BLOOD CELL (RE by HYDRO DYNAMIC F	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.19	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUN	NE (PCV) automated hematology analyzer	30 ^L	%	37.0 - 50.0
MEAN CORPUSCULA		71.4 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	21.2 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	29.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	20.2 ^H	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	54	fL	35.0 - 56.0
MENTZERS INDEX		17.04	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	EX	34.36	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	COUNT (TLC) y by sf cube & microscopy	7130	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % automated hematology analyzer &	NIL	%	< 10 %
DIFFERENTIAL LEUC	<u>OCYTE COUNT (DLC)</u>			



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHIVANI AGE/ GENDER : 29 YRS/FEMALE **PATIENT ID** :1563496 **COLLECTED BY** : SURJESH :012407280071 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 28/Jul/2024 01:56 PM : **BARCODE NO.** :01514006 **COLLECTION DATE** : 28/Jul/2024 01:57PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Jul/2024 02:35PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 58 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 32 LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT 2000 - 7500 ABSOLUTE NEUTROPHIL COUNT 4135 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2282 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 214 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 499 80 - 880 ABSOLUTE MONOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY

ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 292000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.35 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 125000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 42.8 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 15.4 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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>8.0

<7.5

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Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOGLC	BIN (HBA1C)	
GLYCOSYLATED HAEMO WHOLE BLOOD	DGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAGE F	· · · · · ·	108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	BETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEM		n %
	etic Adults >= 18 years		5.7	
	Risk (Prediabetes)		- 6.4	
Dia	gnosing Diabetes		6.5 19 Years	
		Goals of Therapy:	< 7.0)
Thorapoutic	goals for glycomic control	Actions Suggested	. 0.0	

nonic. Converse is the for a diabetic previously and er good control but now poorly controlled.	
3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular dise	ease. In patients with
significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be	
appropiate.	4.High
HbA1c (>0.0.5 %) is strongly associated with risk of dovelopment and rapid progression of microvascular and nerve complications	0

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.

Actions Suggested:

Goal of therapy

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

Age < 19 Years



COMMENTS:



Therapeutic goals for glycemic control

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Test Name		Value Unit	Biological Reference interval

Name :	Case :	Patient Type	1	Test Date: 28/07/2024 14	:09:12
Age :	Department :	Sample Type	: Whole Blood EDTA	Sample Id: 01514006	
Gender:				Total Area: 8804	
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)	
HbA0	70	2155	7848	86.2	
HbA1c	37	43	489	5.4	
_a1c	25	30	221	2.4	
HbF	19	14	20	0.2	
Hba1b Hba1a	13	35 26	130 96	1.4	
0.03				Choromotography Hbs1c	
0.025 -				Pibaic	
0.02-					
≨ 0.015 —		NJ			
0.01 -		10-			
0.005 -		٨			
0	20 30 40 50 60				
0 10		70 80 90 1 ime(S)	100 110 120 130		



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		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 28/Jul/2024 03:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERY	THROCYTE SEDIM	ENTATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	10	mm/1st h	nr 0 - 20
(polycythaemia), sigr	hificantly high white blood cell le cell anaemia) also lower the	count (leucocytosis)	, and some protein abno	uch as a high red blood cell count rmalities. Some changes in red cell shape (such
NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dexi	te protein (C-RP) are both mark es not change as rapidly as doe I by as many other factors as is ed, it is typically a result of tw we a higher ESR, and menstrua tran, methyldopa, oral contrac nd quinine may decrease it	s CRP, either at the st ESR, making it a bette o types of proteins, gl tion and pregnancy ca	r marker of inflammatior obulins or fibrinogen. In cause temporary eleva	n.





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	MD (Pathology 8 Chairman & Con	& Microbiology) nsultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
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BARCODE NO.	:01514006	COLL	ECTION DATE	: 28/Jul/2024 01:57PM
BARCODE NO.	101011000			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 28/Jul/2024 02:46PM
CLIENT CODE.			RTING DATE	: 28/Jul/2024 02:46PM
CLIENT CODE. CLIENT ADDRESS Test Name	: KOS DIAGNOSTIC LAB		RTING DATE	: 28/Jul/2024 02:46PM Biological Reference interval
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit 'BIOCHEMISTR	Biological Reference interval

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. 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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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SHIVANI : 29 YRS/FEMALE : SURJESH : : 01514006 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	REG. REGE COLL REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE ORTING DATE	: 1563496 : 012407280071 : 28/Jul/2024 01:56 PM : 28/Jul/2024 01:57PM : 28/Jul/2024 03:40PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	·BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		102.16	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERI	UM HATE OXIDASE (ENZYMATIC)	82.97	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E		49.3	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		36.27	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER by CALCULATED, SPEC		52.86	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPEC		16.59	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	287.29 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	RATIO: SERUM	2.07	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: SERI by CALCULATED, SPEC		0.74	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.68 ^L	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. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHIVANI **AGE/ GENDER** : 29 YRS/FEMALE **PATIENT ID** :1563496 **COLLECTED BY** : SURJESH :012407280071 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 28/Jul/2024 01:56 PM : **BARCODE NO.** :01514006 **COLLECTION DATE** : 28/Jul/2024 01:57PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Jul/2024 03:40PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.73 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.27 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM mg/dL 0.10 - 1.00 0.46 by CALCULATED, SPECTROPHOTOMETRY 15 00 1 (0)

SGOT/AST: SERUM	16.86	U/L	7.00 - 45.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
SGPT/ALT: SERUM	18.68	U/L	0.00 - 49.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
AST/ALT RATIO: SERUM	0.91	RATIO	0.00 - 46.00
by CALCULATED, SPECTROPHOTOMETRY			
ALKALINE PHOSPHATASE: SERUM	94.93	U/L	40.0 - 130.0
by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL			
PROPANOL			
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM	11.11	U/L	0.00 - 55.0
by SZASZ, SPECTROPHTOMETRY			
TOTAL PROTEINS: SERUM	6.63	gm/dL	6.20 - 8.00
by BIURET, SPECTROPHOTOMETRY			
ALBUMIN: SERUM	3.78	gm/dL	3.50 - 5.50
by BROMOCRESOL GREEN			
GLOBULIN: SERUM	2.85	gm/dL	2.30 - 3.50
by CALCULATED, SPECTROPHOTOMETRY			
A : G RATIO: SERUM	1.33	RATIO	1.00 - 2.00
NUCLICATED SPECTROPHOTOMETRY			

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

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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Test Name		Value	Unit	Biological Reference inter	rval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incr	eased)	

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).

PROGNOSTIC SIGNIFICANCE:

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



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Dr. Yugam Chopra

Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHIVANI **AGE/ GENDER** : 29 YRS/FEMALE **PATIENT ID** :1563496 : SURJESH **COLLECTED BY** :012407280071 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 28/Jul/2024 01:56 PM : **BARCODE NO.** :01514006 **COLLECTION DATE** : 28/Jul/2024 01:57PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Jul/2024 03:40PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name **KIDNEY FUNCTION TEST (COMPLETE) UREA: SERUM** 23.46 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE: SERUM** 0.97 mg/dL 0.40 - 1.20 by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM 10.96 mg/dL 7.0 - 25.0 by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE RATIO 10.0 - 20.0 11.3 RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY RATIO **UREA/CREATININE RATIO: SERUM** 24.19 by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM 2.50 - 6.80 4.66 mg/dL by URICASE - OXIDASE PEROXIDASE 9.28 8.50 - 10.60 CALCIUM: SERUM mg/dL by ARSENAZO III, SPECTROPHOTOMETRY 2.94 PHOSPHOROUS: SERUM mg/dL 2.30 - 4.70 by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY **ELECTROLYTES** SODIUM: SERUM 139.6 mmol/L 135.0 - 150.0 by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM 3.97 mmol/L 3.50 - 5.00 by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM 104.7 90.0 - 110.0 mmol/l by ISE (ION SELECTIVE ELECTRODE)

ESTIMATED GLOMERULAR FILTERATION RATE

INTERPRETATION:

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.

3. GI haemorrhage.

4. High protein intake.

5. Impaired renal function plus



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			(Pathology)
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5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR FILTERATION RATE:

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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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



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Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY		28.61 ^L	μg/dL	37.0 - 145.0
UNSATURATED IRON SERUM by FERROZINE, SPEC			422.48 ^H	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM by SPECTROPHOTON	G CAPACITY (TIB		451.09 ^H	µg/dL	230 - 430
%TRANSFERRIN SAT	URATION: SERU		6.34 ^L	%	15.0 - 50.0
TRANSFERRIN: SERU by SPECTROPHOTOM	М		320.27	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB	LES	ANEMIA OF CHE	RONIC DISEASE	IRON 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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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Test Name		Value	Unit	Biological Reference interval
			CRINOLOGY	
		(ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE		0.858	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	iescent microparticle immunoassa RUM iescent microparticle immunoassa	9.14	μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the	circadian variation, reaching peak levels bet	ween 2-4 a.m imulates the p	roduction and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

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:-

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.

TRIIODOTH	YRONINE (T3)	THYROX	INE (T4)	THYROID STIMU	ATING 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





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Test Name			Value	Unit	:	Biological Reference interval
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	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY (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 Name		Value	Unit	Biological Reference	interval
SERUM by CLIA (CHEMILUMIN INTERPRETATION:	IESCENCE IMMUNOASSAY)				
NZ	MEN:		mIU/mI	< 2.0	
NC	ON PREGNANT PRE-MENOPAUSA		mIU/mI	< 5.0	
NC	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMEN		mIU/ml mIU/ml	< 5.0 < 7.0	
NC	ON PREGNANT PRE-MENOPAUSA		mIU/ml mIU/ml	< 5.0 < 7.0	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMEN BETA HCG EXPECTED VALUES WEEKS OF GESTATION		mIU/mI mIU/mI TO WEEKS OF GESTATIONAL	< 5.0 < 7.0 AGE	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMEN BETA HCG EXPECTED VALUES		mIU/mI mIU/mI TO WEEKS OF GESTATIONAL Unit	< 5.0 < 7.0 AGE Value	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7		mIU/mI mIU/mI TO WEEKS OF GESTATIONAL Unit mIU/mI mIU/mI mIU/mI	<pre>< 5.0 </pre> < 7.0 AGE Value 1500 -23000	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml mIU/ml mIU/ml mIU/ml mIU/ml mIU/ml	< 5.0 < 7.0 AGE 1500 -23000 3400 - 135300	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	< 5.0 < 7.0 AGE Value 1500 -23000 3400 - 135300 10500 - 161000	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	 < 5.0 < 7.0 AGE Value 1500 - 23000 3400 - 135300 10500 - 161000 18000 - 209000 	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10 10-11		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	 < 5.0 < 7.0 AGE Value 1500 -23000 3400 - 135300 10500 - 161000 18000 - 209000 37500 - 219000 	
	DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	 < 5.0 < 7.0 AGE Value 1500 - 23000 3400 - 135300 10500 - 161000 18000 - 209000 37500 - 219000 42800 - 218000 	
	Annu DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	 < 5.0 < 7.0 AGE Value 1500 - 23000 3400 - 135300 10500 - 161000 18000 - 209000 37500 - 219000 42800 - 218000 33700 - 218700 	
	Annu Pregnant Pre-Menopausa MENOPAUSAL WOMEN: BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml mIU/ml	 < 5.0 < 7.0 AGE Value 1500 -23000 3400 - 135300 10500 - 161000 18000 - 209000 37500 - 219000 42800 - 218000 33700 - 218700 21800 - 193200 	
	Annu DN PREGNANT PRE-MENOPAUSA MENOPAUSAL WOMENS BETA HCG EXPECTED VALUES WEEKS OF GESTATION 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13		mIU/ml mIU/ml TO WEEKS OF GESTATIONAL Unit mIU/ml	 < 5.0 < 7.0 AGE Value 1500 - 23000 3400 - 135300 10500 - 161000 18000 - 209000 37500 - 219000 42800 - 218000 33700 - 218700 21800 - 193200 20300 - 166100 	



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2.1t is largely secreted by trophoblastic tissue. Small amounts may be secreted by fetal tissues and by the adult ant pituitary.

INCREASED : 1.Pregnancy

2.Gestationalsite & Non gestational trophoblastic neoplasia.

3.In mixed germ cell tumors.

SIGNIFICANTLY HIGHER THAN EXPECTED LEVEL:

1.Multiple pregnancies & High risk molar pregnancies are usually associated with levels in excess of one lac mIU/mI. 2.Erythroblastosis fetalis & Downs syndrome.

DECREASED:

1. Ectopic pregnancy.

2.Intra-uterine fetal death.

NOTE:

1. The test becomes positive 7-9 days after the midcycle surge that precedes ovulation (time of blastocyst implantation). Blood levels rise rapidly after this and double every 1.4 - 2 days. 2. Peak values are usually seen at 60-80 days of LMP. The levels then begin to taper and ebb out around the 20th week. These low levels are then

maintained throughout pregnancy.

3. Doubling time: In intra-uterine pregnancy, serum hCG levels increase by approximately 66% every 48 hrs. Inappropriately rising serum hCG levels are suggestive of dying or ectopic pregnancy.

CAUTION:

Spuriously high levels (Phantom hCG) may be seen in presence of heterophilic antibodies (found in some normal people). If persistently raised levels are seen in a non-pregnant patient with no evidence of other obvious causes for such an increase a urine hCG assay may help confirm presence of the heterophile antibodies.





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	ANTIM	ULLERIAN I	HORMONE (AMH) GEN	II
	DRMONE (AMH) GEN II: SERUM HEMILUMINESCENCE IMMUNOASSAY)	0.103	ng/mL	0.05 - 11.00
A Correlation of FER	TILITY POTENTIAL and AMH levels ar	re :		
C	OVARIAN FERTILITY POTENTIAL		AMH VALU	JES IN (ng/mL)
	OPTIMAL FERTILITY:		4.00 – 6.80 na	/mL

ovnik internet in oreiting		
OPTIMAL FERTILITY:	4.00 – 6.80 ng/mL	
SATISFACTORY FERTILITY:	2.20 – 4.00 ng/mL	
LOW FERTILITY:	0.30 – 2.20 ng/mL	
VERY LOW/UNDETECTABLE:	0.00 – 0.30 ng/mL	
HIGH LEVEL:	>6.8 ng/mL (PCOD/GRANULOSA CELL TUMOUR)	

Anti Mullerian Hormone (AMH) is also known as Mullerian Inhibiting Substance provided by sertoli cells of the testis in males and by ovarian granulose cells in females up to antral stage in females.

IN MALES:

1.It is used to evaluate testicular presence and function in infants with intersex conditions or ambiguous genitalia, and to distinguish between cryptorchidism and anorchia in males

IN FEMALES:

1. During reproductive age, follicular AMH productionbegins during the primary stage, peaks in preantral stage & has influence on follicular sensitivity to FSH which is impoetant in selection for follicular dominance. AMH levels thus represents the pool or number of primordial follicles but not thequality of oocytes. AMH does not vary significantly during menstrual cycle & hence can be measured independently of day of cycle. 2. Polycystic ovarian syndrome can elevate AMH 2 to 5 fold higher than age specific reference range & predict anovulatory, irregular cycles, ovarian tumours like Granulosa cell tumour are often associated with higher AMH levels.

3.Obese women are often associated with diminished ovarian reserve and can have 65% lower mean AMH levels than non-obese women. 4.In females , AMH levels do not change significantly throughout the menstrual cycle and decrease with age.

5.Assess Ovarian Reserve - correlates with the number of antral follicies in the ovaries.

6.Evaluate fertility potential and ovarian response in IVF- Women with low AMG levels are more likely to the poor ovarian responders. 7.Assess the condition of Polycystic Ovary and premature ovarian failure.

A combination of Age, Ultrasound markers-Ovarian Volume and Antral Follicle Count, AMH and FSH levels are useful for optimal assessment of ovarian reserve. Studies in various fertility clinics are ongoing to establish optimal AMH concentretaion for predicting response to invitro fertilization, however, given below is suggested interpretative reference.



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Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHIVANI AGE/ GENDER : 29 YRS/FEMALE **PATIENT ID** :1563496 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012407280071 **REFERRED BY REGISTRATION DATE** : 28/Jul/2024 01:56 PM : **BARCODE NO.** :01514006 **COLLECTION DATE** : 28/Jul/2024 01:57PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Jul/2024 04:57PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name		Value	Unit	Biological Reference interva
	Categorization for fertility based on AMH for age group (20 to 45 yrs)	Follicle counts	(day 3)	to IVF/COH cycle
Below 0.3	Very low	Below 4	Above 20	Negligible/Poor
0.3 to 2.19	Low	4 - 10	Usually 16 - 20	Reduced
2.19 t0 4.00	Satisfactory	11 - 25	Within reference range or between 11 - 15	Safe/Normal
Above 4.00	Optimal	Upto 30 and Above	Within reference range or between 11 – 15 or Above 15	Possibly Excessive

INCREASED:

1.Polycystic ovarian syndrome (most common)

2. Ovarian Tumour: Granulosa cell tumour

DECREASED:

1. Anorchia, Abnormal or absence of testis in males

2.Pseudohermaphroditism

3.Post Menopause

NOTE:

1.AMH measurement alone is seldom suffcient for diagnosis and results should be interpreted in the light of clinical finding and other relevant test such as ovarian ultrasonography(In fertility applications); abdominal or testicular ultrasound(intersex or testicular function applications); measurement of sex steroids (estradiol,Progesterone,Testosterone),FSH, Inhibin B (For fertility), and Inhibin A and B (for tumour work up). 2.Conversion of AMH grom ng/mL to pmol/L can be performed by using equation 1 ng/mL = 7.14 pmol/L





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MBBS, MD (PATHOLOGY)





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		Chopra & Microbiology) onsultant Pathologis	ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. SHIVANI			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1563496
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407280071
REFERRED BY	:		REGISTRATION DATE	: 28/Jul/2024 01:56 PM
BARCODE NO.	: 01514006		COLLECTION DATE	: 28/Jul/2024 01:57PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Jul/2024 03:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
VITAMIN D (25-HYD)	V ROXY VITAMIN D3): SERUM		AMINS YDROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0
by CLIA (CHEMILUMIN	VESCENCE IMMUNOASSAY)	20.7-	ngrinz	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DFFI	CIENT:	< 20		ng/mL
INSUF	FICIENT:	21 - 29		ng/mL
	ED RANGE: CATION:			ng/mL
2.25-OHVitamin D re- tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	und by a transport protein whi rimary role in the maintenanc ion, skeletal calcium depositio nay lead to failure to mineraliz posure. malabsorption (celiac disease Vitamin D 25- hydroxylase act need Liver disease econdary Hyperparathroidism rugs: anti-epileptic drugs like p D is Rare, and is seen only after a and hyperphophatemia. ent therapy in deficient individu	roir and transport for le in circulation. e of calcium homen n, calcium mobiliza e newly formed ost) ivity (Mild to Moderate henytoin, phenoba prolonged exposu uals must be monito	orm of Vitamin D and tran ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine ire to extremely high dose ored by periodic assessme	sport form of Vitamin D, being stored in adipose im absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. , that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in ent of Vitamin D levels in order to prevent iciency due to excess of melanin pigment which





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AME	: Mrs. SHIVANI			
GE/ GENDER	: 29 YRS/FEMALE	PAT	ENT ID	: 1563496
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name /ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY)	LAMIN: SERUM	Value VITAMIN B12/Co 115 ^L	Unit DBALAMIN pg/mL	Biological Reference interval 190.0 - 890.0
ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) NTERPRETATION:-	NESCENT MICROPARTICLE	VITAMIN B12/C	DBALAMIN pg/mL	190.0 - 890.0
/ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE	VITAMIN B12/CO 115 ^L	DBALAMIN	190.0 - 890.0
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	NESCENT MICROPARTICLE ED VITAMIN B12 nin C	VITAMIN B12/CO 115 ^L	DBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	NESCENT MICROPARTICLE ED VITAMIN B12 hin C gen	VITAMIN B12/CO 115 ^L 1.Pregnancy 2.DRUGS:Asp	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants,	190.0 - 890.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 3.Ingestion of Vitam	NESCENT MICROPARTICLE ED VITAMIN B12 hin C gen hin A	VITAMIN B12/CO 115 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion	190.0 - 890.0 B12
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ED VITAMIN B12 in C gen in A jury	VITAMIN B12/CO 115 ^L 1.Pregnancy 2.DRUGS:Asp	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones	190.0 - 890.0 B12

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.





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	Dr. Vinay Ch e MD (Pathology & Chairman & Cons			(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SHIVANI : 29 YRS/FEMALE : SURJESH : : 01514006 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REG. REGI COLI REP(ENT ID NO./LAB NO. ISTRATION DATE LECTION DATE DRTING DATE	: 1563496 : 012407280071 : 28/Jul/2024 01:56 PM : 28/Jul/2024 01:57PM : 28/Jul/2024 03:00PM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINA		CLINICAL PAT DUTINE & MICROS		TION
COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 MILDLY REDDIS HAZY >=1.030	ml	PALE YELLOW CLEAR 1.002 - 1.030
PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC 1+ Negative 5.5 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLEC KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative 3+ NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

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



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

NAME	: Mrs. SHIVANI			
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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) Centrifuged urinary sediment	40-50	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA		NEGATIVE (-ve)		NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report ***

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

ABSENT