



	Dr. Vinay Chopr MD (Pathology & Mice Chairman & Consultar	robiology)		(Pathology)
NAME	: Mrs. AMITA MANCHANDA			
AGE/ GENDER	: 60 YRS/FEMALE		PATIENT ID	: 1558911
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407240011
REFERRED BY	:		REGISTRATION DATE	: 24/Jul/2024 08:54 AM
BARCODE NO.	: 01513712		COLLECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Jul/2024 09:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.5	
			LOOD COUNT (CBC)	
	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		13.1	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL (RB	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	6.54 ^H	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUM	IE (PCV)	43.1	%	37.0 - 50.0
MEAN CORPUSCULAI	UTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	65.9 ^L	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	20 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ION WIDTH (RDW-CV)	15.4	%	11.00 - 16.00
-	utomated hematology analyzer ION WIDTH (RDW-SD)	37.9	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	37.7	12	33.0 - 30.0
MENTZERS INDEX		10.08	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDEX	x	15.49	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED		10.47	N/IIIO	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS		(1/0	·	4000 11000
TOTAL LEUCOCYTE CO	JUNT (TLC) BY SF CUBE & MICROSCOPY	6160	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
by CALCULATED BY A MICROSCOPY	UTOMATED HEMATOLOGY ANALYZER &			
NUCLEATED RED BLO		NIL	%	< 10 %
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER &			

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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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. AMITA MANCHANDA AGE/ GENDER : 60 YRS/FEMALE **PATIENT ID** :1558911 : SURJESH **COLLECTED BY** :012407240011 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 24/Jul/2024 08:54 AM : **BARCODE NO.** :01513712 **COLLECTION DATE** : 24/Jul/2024 09:21AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 24/Jul/2024 09:33AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** NEUTROPHILS 53 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 35 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 5 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 7 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3265 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 2156 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 308 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 431 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 264000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.33 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 30000 - 90000 123000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 46.5^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.3 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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		& Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		GLYCOSYLATED HAEMOGLO) BIN (HBA1C)	
	DGLOBIN (HbA1c):	6.1	%	4.0 - 6.4
ESTIMATED AVERAGE		128.37	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIATION (ADA):		
RE	FERENCE GROUP	GLYCOSYLATED HEM	IOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years	<	5.7	
At F	Risk (Prediabetes)		-6.4	
Dia	gnosing Diabetes		= 6.5	
			19 Years	
		Goals of Therapy:	< 7.0	
TI	goals for glycemic control	Actions Suggested:	>8.0	

COMMENTS:

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

Goal of therapy:

Age < 19 Years

<7.5

HbAlc. Converse is true for a diabetic previously under 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 disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4.High

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.

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.





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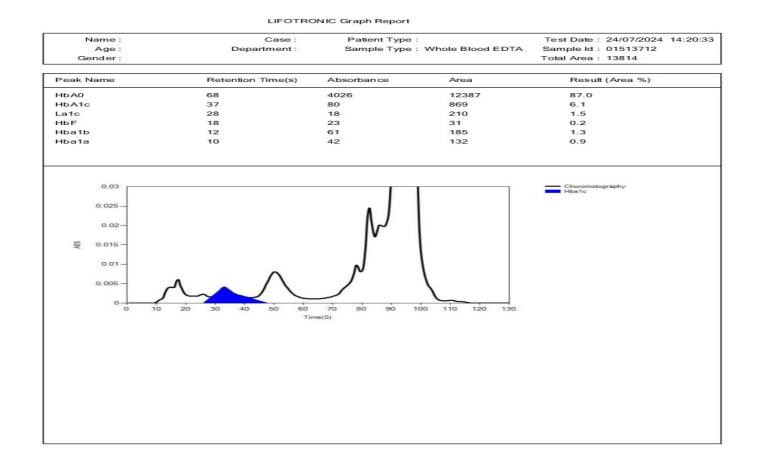


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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT	
Test Name		Value Unit	Biological Reference interval





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NAME	: Mrs. AMITA MANCHANDA			
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REFERRED BY	:	REGIS	TRATION DATE	: 24/Jul/2024 08:54 AM
BARCODE NO.	:01513712		CTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 24/Jul/2024 10:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	Ерутир	OCYTE SEDIMENT	ATION DATE (ESD	N
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also t systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe: 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dexti	does not tell the health practitione cted by other conditions besides in the used to monitor disease activity ematosus V ESR n with conditions that inhibit the n ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CRI by as many other factors as is ESR, ed, it is typically a result of two typ ye a higher ESR, and menstruation	er exactly where the in flammation. For this r and response to there formal sedimentation of nt (leucocytosis), and c. of inflammation. P, either at the start of making it a better mar bes of proteins, globuli and pregnancy can cau	flammation is in the eason, the ESR is typ apy in both of the ab of red blood cells, su some protein abnorn f inflammation or as ker of inflammation. is or fibrinogen. ise temporary elevat	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such ove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	BLEEDING	G TIME (BT)	
BLEEDING TIME (BT) by duke method	2 MIN 25SE	C. MINS	1 - 5



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLOTTING TIME	(CT)	
CLOTTING TIME (CT) by capillary tube in		6MIN 50SEC.	MINS	4 - 9



an

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BARCODE NO.	:01513712		COLLECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Jul/2024 09:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	PR	OTHROMBIN 1	TIME STUDIES (PT/INR)	
PT TEST (PATIENT) by photo optical C	LOT DETECTION	12.9	SECS	11.5 - 14.5
PT (CONTROL) by photo optical c	LOT DETECTION	12	SECS	
ISI by PHOTO OPTICAL C	LOT DETECTION	1.1		
INTERNATIONAL NC by PHOTO OPTICAL C	RMALISED RATIO (INR)	1.08		0.80 - 1.20
PT INDEX by PHOTO OPTICAL C	LOT DETECTION	93.02	%	

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR ORAL ANTI-COAGULANT THERAPY (INR)				
INDICATION		INTERNATIO	NAL NORMALIZED RATIC (INR)	
Treatment of venous thrombosis				
Treatment of pulmonary embolism				
Prevention of systemic embolism in tissue heart valves				
Valvular heart disease	Low Intensity		2.0 - 3.0	
Acute myocardial infarction				
Atrial fibrillation				
Bileaflet mechanical valve in aortic position				
Recurrent embolism				
Mechanical heart valve	High Intensity		2.5 - 3.5	
Antiphospholipid antibodies ⁺				
COMMENTS:	-			





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Test Name		Value Unit	Biological Reference interval

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are : 1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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Test Name		Value	Unit	Biological Reference interval
<u></u>	ACTIVATE	D PARTIAL TH	IROMBOPLASTIN TIME	(APTT)
APTT (PATIENT VALU		33.8	SECS	28.6 - 38.2

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

INTERPRETATION:-

The activated partial thromboplastin time (aPTT or APTT) is a performance indicator measuring the efficacy of both the **intrinsic** (now referred to as the contact activation pathway) and the common coagulation pathways. Apart from detecting abnormalities in blood clotting, it is also used to monitor the treatment effects with heparin, a major anticoagulant. It is used in conjunction with the prothrombin time (PT) which measures the extrinsic pathway.

COMMON CAUSES OF PROLONGED APTT :-

1. Disseminated intravascular coagulation.

- 2. Liver disease.
- 3. Massive transfusion with stored blood.
- 4. Heparin administration or contamination.
- 5. A circulating Anticogulant.
- 6. Deficiency of a coagulation Factor other than factor 7.





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		hopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	
	F): PLASMA	99.92	mg/dL	NORMAL: < 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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 ADDRESS	: 6349/1, NICHOLSON R			
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL		162.77	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER	UM PHATE OXIDASE (ENZYMATIC)	170.52 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBITI		41.49	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		87.18	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		121.28	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:		34.1	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	496.06	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	3.92	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 by Calculated, Spe		2.1	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

82.56 57

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

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

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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. AMITA MANCHANDA			
AGE/ GENDER	: 60 YRS/FEMALE	PATI	ENT ID	: 1558911
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012407240011
REFERRED BY	:	REGI	STRATION DATE	: 24/Jul/2024 08:54 AM
BARCODE NO.	:01513712	COLL	ECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 24/Jul/2024 10:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.11	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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. AMITA MANCHANDA **AGE/ GENDER** : 60 YRS/FEMALE **PATIENT ID** :1558911 **COLLECTED BY** : SURJESH :012407240011 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 24/Jul/2024 08:54 AM : **BARCODE NO.** :01513712 **COLLECTION DATE** : 24/Jul/2024 09:21AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 24/Jul/2024 10:28AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.54 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.18 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.36 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 19.49 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 17.03 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM RATIO 0 00 - 46 00 1 1 /

by CALCULATED, SPECTROPHOTOMETRY	1.14	RATIO	0.00 - 40.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	78	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	19	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.43	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.33	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.1	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.4	RATIO	1.00 - 2.00

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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NAME	: Mrs. AMITA MANCHANDA			
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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increa	ased)

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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Test Name		Value	Unit	Biological Reference interval
	кі	DNEY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		21.28	mg/dL	10.00 - 50.00
by UREASE - GLUTAM CREATININE: SERUM	ATE DEHYDROGENASE (GLDH)	0.41	ma/dl	0.40 - 1.20
by ENZYMATIC, SPEC		0.61	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		9.94	mg/dL	7.0 - 25.0
by CALCULATED, SPE	GEN (BUN)/CREATININE	16.3	RATIO	10.0 - 20.0
RATIO: SERUM		10.5	KATIO	10.0 - 20.0
by CALCULATED, SPE				
UREA/CREATININE R by CALCULATED, SPE		34.89	RATIO	
URIC ACID: SERUM		5.71	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	E PEROXIDASE	0.01	no n /ell	0.50 10 (0
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.01	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER	UM	4.07	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBD ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		120 F	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	E ELECTRODE)	139.5	mmoi/L	135.0 - 150.0
POTASSIUM: SERUM		3.86	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	E ELECTRODE)	104.63	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	E ELECTRODE)	104.05	minui/L	70.0 - 110.0
ESTIMATED GLOME	RULAR FILTERATION RATE			
ESTIMATED GLOMEI (eGFR): SERUM by CALCULATED	RULAR FILTERATION RATE	102.3		

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.



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01, Haryana m Page 16 of 25

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NAME	: Mrs. AMITA MANCHANDA			
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REFERRED BY		REGISTRATION DA		
BARCODE NO.	:01513712	COLLECTION DATE		
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			. 24/Jul/2024	IU.20AW
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value Uni	t Biol	ogical Reference interval
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease.		uropathy).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	(e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen f inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of crease eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me	EVELS: bre than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. tine to creatinine).		normal ratio when dehydrat
 Virine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia Certain drugs (Prerenal azotemia Certain drugs (Prerenal azotemia Certain drugs (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in- Cephalosporin ther 	(e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen f inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of crease eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION	EVELS: bre than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. tine to creatinine). ease in creatinine). ease in creatinine with certain methes asurement). GFR (mL/min/1.73m2)		
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an im 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1	(e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen f inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of crease eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: Normal kidney function	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. : tine to creatinine). rease in creatinine with certain metherasurement).	nodologies,resulting in ASSOCIATED FINDIN No proteinuria	IGS
 Virine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia Certain drugs (Prerenal azotemia Certain drugs (Postrenal azotemia Certain drugs (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. PecREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (rible) Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Cephalosporin ther STIMATED GLOMERL CKD STAGE 	(e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen f inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: Normal kidney function Kidney damage with	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. : tine to creatinine). rease in creatinine with certain methers essurement). On >90 >90 >90	nodologies,resulting in <u>ASSOCIATED FINDIN</u> <u>No proteinuria</u> Presence of Protei	IGS
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (>1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen f inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. : tine to creatinine). rease in creatinine with certain methers essurement). On >90 >90	nodologies,resulting in ASSOCIATED FINDIN No proteinuria	IGS
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NAME	: Mrs. AMITA MANCHANDA			
AGE/ GENDER	: 60 YRS/FEMALE	PATIENT ID	: 155	58911
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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

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Test Name		Value	Unit	Biological Reference interval			
		IRON PROF	ILE				
IRON: SERUM by FERROZINE, SPECT	TROPHOTOMETRY	86.27	μg/dL	50.0 - 170.0			
UNSATURATED IRON SERUM	I BINDING CAPACITY (UIBC)	232.78	μg/dL	150.0 - 336.0			
TOTAL IRON BINDING SERUM	G CAPACITY (TIBC)	319.05	μg/dL	230 - 430			
%TRANSFERRIN SAT		27.04	%	15.0 - 50.0			
TRANSFERRIN: SERU	, , ,	226.53	mg/dL	200.0 - 350.0			

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

		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:

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





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	& Microbiology) MD		(Pathology)
NAME	: Mrs. AMITA MANCHANDA			
AGE/ GENDER	: 60 YRS/FEMALE		PATIENT ID	: 1558911
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407240011
REFERRED BY	:		REGISTRATION DATE	: 24/Jul/2024 08:54 AM
BARCODE NO.	: 01513712		COLLECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Jul/2024 11:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY		ICTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM vescent microparticle immunoassay	0.816)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM vescent microparticle immunoassay	5.2)	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	3.216)	µlU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fai		nulates the p	roduction and secretion of the m	<i>m. The variation is of the order of 50%.Hence time of</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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 levies 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	(RONINE (T3)	THYROX	INE (T4)	THYROID STIMUL	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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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. AMITA MANCHANDA		
AGE/ GENDER	: 60 YRS/FEMALE	PATIENT ID	: 1558911
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	:012407240011
REFERRED BY	:	REGISTRATION DATE	: 24/Jul/2024 08:54 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

					5
0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
RECO	MMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.92 - 2.28 0.35 - 1.93 0.35 - 1.93 RECO 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LI 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PRECOMMENDATIONS OF TSH LEVELS DURING PRECOMMENDATIONS OF TSH LEVELS DURING PRECOMMENT 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.60 - 5.50 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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 (Path	nay Chopra nology & Microbiology) n & Consultant Pathologi	M	I m Chopra D (Pathology) Int Pathologist
NAME	: Mrs. AMITA MANCH	ANDA		
AGE/ GENDER	: 60 YRS/FEMALE		PATIENT ID	: 1558911
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BARCODE NO.	:01513712		COLLECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	В	REPORTING DATE	: 24/Jul/2024 11:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
VITAMIN D (25-HYDI	ROXY VITAMIN D3): SER	VITAMIN D/25 H	TAMINS HYDROXY VITAMIN D3 ng/mL	B DEFICIENCY: < 20.0
by CLIA (CHEMILUMIN	IESCENCE IMMUNOASSAY)		lig/iii	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:	CIENT:	< 20		ng/ml
	ICIENT:	21 - 29		ng/mL
PREFFERE	D RANGE: CATION:	30 - 100 > 100		ng/mL ng/mL
conversion of 7- dihy 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.Inadequate intake, 3.Depressed Hepatic 4.Secondarv to advan 5.Osteoporosis and S 6.Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E severe hypercalcemia	drocholecalciferol to Vita epresents the main body ind by a transport protei rimary role in the maintu- ion, skeletal calcium dep hay lead to failure to min posure. malabsorption (celiac di Vitamin D 25- hydroxylas ced Liver disease econdary Hyperparathro ugs: anti-epileptic drugs 0 is Rare, and is seen only and hyperphophatemia	amin D3 in the skin upo resevoir and transport in while in circulation. enance of calcium home osition, calcium mobiliz ieralize newly formed o (sease) se activity hidism (Mild to Moderat like phenytoin, phenob y after prolonged expos	n Ultraviolet exposure. form of Vitamin D and trar eostatis. It promotes calcin zation, mainly regulated by steoid in bone, resulting in the deficiency) parbital and carbamazepine ure to extremely high dose	nolecalciferol (from animals, Vitamin D3), or by nsport form of Vitamin D, being stored in adipose um absorption, renal calcium absorption and y parathyroid harmone (PTH). n rickets in children and osteomalacia in adults. e, that increases Vitamin D metabolism. es of Vitamin D. When it occurs, it can result in ent of Vitamin D levels in order to prevent
NOTE:-Dark coloured i interefere with Vitami.	naividuais as compare to n D absorption.	wnites, is at higher risk (or developing Vitamin D del	ficiency due to excess of melanin pigment which





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NAME	: Mrs. AMITA MANCHANDA			
AGE/ GENDER	: 60 YRS/FEMALE	PA	ATIENT ID	: 1558911
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012407240011
REFERRED BY	·		EGISTRATION DATE	: 24/Jul/2024 08:54 AM
BARCODE NO.	: 01513712		DLLECTION DATE	: 24/Jul/2024 09:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 24/Jul/2024 11:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOAS		DECREASED VITAMI	N B12
1.Ingestion of Vitan	nin C	1.Pregnanc	;y	
2.Ingestion of Estro			spirin, Anti-convulsants	, Colchicine
3.Ingestion of Vitan		3.Ethanol I		
4.Hepatocellular in			ptive Harmones	
5.Myeloproliferativ 6.Uremia	e disorder	5.Haemod 6. Multiple		
	amin) is necessary for hematopo			
2.In humans, it is ob 3.The body uses its v excreted.	tained only from animal proteins itamin B12 stores very economic	and requires intrin ally, reabsorbing vit	sic factor (IF) for absorp amin B12 from the ileun	n and returning it to the liver; very little is
ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defec	intestinal diseases). ency frequently causes macrocyt	ic anemia, glossitis, avioral changes. The	peripheral neuropathy, ese manifestations may	astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have states
7.Follow-up testing f NOTE: A normal serur deficiency at the cell	or antibodies to intrinsic factor (n concentration of vitamin B12 d	IF) is recommended oes not rule out tiss	to identify this potentia ue deficiency of vitamin	al cause of vitamin B12 malabsorption. B12. The most sensitive test for vitamin B12 surement of MMA and homocysteine should be

considered, even if serum vitamin B12 concentrations are normal.



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NAME	: Mrs. AMITA MANCHANDA				
AGE/ GENDER	: 60 YRS/FEMALE	PA	FIENT ID	: 1558911	
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012407240011	
REFERRED BY	:	RE	GISTRATION DATE	: 24/Jul/2024 08:54 AM	
BARCODE NO.	:01513712	CO	LLECTION DATE	: 24/Jul/2024 09:21AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 24/Jul/2024 10:12AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PA	THOLOGY		
		OUTINE & MICRO	SCOPIC EXAMINAT	ION	
PHYSICAL EXAMINA			SCOTIC EXAMINAT		
		10			
QUANTITY RECIEVE	U CTANCE SPECTROPHOTOMETRY	10	ml		
COLOUR		AMBER YELLO	W	PALE YELLOW	
-	CTANCE SPECTROPHOTOMETRY				
TRANSPARANCY	CTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR	
SPECIFIC GRAVITY		1.01		1.002 - 1.030	
	TANCE SPECTROPHOTOMETRY				
CHEMICAL EXAMINA	ATION				
REACTION		ACIDIC			
PROTEIN	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOMETRY				
SUGAR		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5	
	CTANCE SPECTROPHOTOMETRY	0.0		0.0 7.0	
BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOMETRY.	Negative			
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOMETRY	Negative			
BLOOD		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY		·)		
MICROSCOPIC EXAN	<u>/IINATION</u>				

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. AMITA MANCHANDA			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 24/Jul/2024 10:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
CLILITI ADDILLOS	. 0040/1, 11011012011 10/12, /11			
	. 0340/ 1, MonoLson Rond, A			
Test Name		Value	Unit	Biological Reference interval
Test Name RED BLOOD CELLS (F			Unit /HPF	Biological Reference interval 0 - 3
Test Name RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS	BCs)	Value		
Test Name RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	BCS) CENTRIFUGED URINARY SEDIMENT	Value NEGATIVE (-ve)	/HPF	0 - 3

CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

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)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT