

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr	а	Dr. Yugan	n Chopra
	MD (Pathology & Micr Chairman & Consultar	robiology)	MD	(Pathology)
NAME	: Mrs. AMITA BANSL			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1667342
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411100020
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 10/Nov/2024 09:39 AM
BARCODE NO.	: 01520470		COLLECTION DATE	: 10/Nov/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Nov/2024 10:11AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HVA WF	LLNESS PANEL: 1.	5
			OOD COUNT (CBC)	5
PED BLOOD CELLS	G (RBCS) COUNT AND INDICES		OOD COUNT (CBC)	
HAEMOGLOBIN (H		12.1	gm/dL	12.0 - 16.0
by CALORIMETRIC			Ű	
RED BLOOD CELL ( by HYDRO DYNAMIC F	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.02 <sup>H</sup>	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU		39.4	%	37.0 - 50.0
MEAN CORPUSCUL		78.4 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	24.1 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	30.7 <sup>L</sup>	g/dL	32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-CV)	15.1	%	11.00 - 16.00
,	UTOMATED HEMATOLOGY ANALYZER	44.1	T1	
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	44.1	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.62	RATIO	BETA THALASSEMIA TRAIT: <
by CALCOLATED				13.0 IRON DEFICIENCY ANEMIA:
		00.50	DIF	>13.0
GREEN & KING IND by CALCULATED	DEX	23.58	RATIO	BETA THALASSEMIA TRAIT:< 65.0
-				IRON DEFICIENCY ANEMIA: >
WHITE BLOOD CE	LIS (WRCS)			65.0
TOTAL LEUCOCYTE		11200 <sup>H</sup>	/cmm	4000 - 11000
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY		,	
	SLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
	SLOOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			





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Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LI	EUCOCYTE COUNT (DLC)			
NEUTROPHILS		62	%	50 - 70
•	Y BY SF CUBE & MICROSCOPY		0/	00.10
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	30	%	20 - 40
EOSINOPHILS		2	%	1 - 6
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
MONOCYTES		6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0 1
ABSOLUTE LEUKO	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR		6944	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPH	OCYTE COUNT Y BY SF CUBE & MICROSCOPY	3360	/cmm	800 - 4900
ABSOLUTE EOSIN		224	/cmm	40 - 440
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO	CYTE COUNT y by sf cube & microscopy	672	/cmm	80 - 880
	OTHER PLATELET PREDICTIVE	MARKERS		
PLATELET COUNT		336000	/cmm	150000 - 450000
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE	330000	/ cillin	130000 - 430000
PLATELETCRIT (P		0.42 <sup>H</sup>	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE		fL	6.50 12.0
MEAN PLATELET V	FOCUSING, ELECTRICAL IMPEDENCE	13 <sup>H</sup>	IL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC)	148000 <sup>H</sup>	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	44	%	11.0 - 45.0
	BUTION WIDTH (PDW)	16.3	%	15.0 - 17.0
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	JCTED ON EDTA WHOLE BLOOD			





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CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		OKING DAIL	. 10/ NOV/ 2024 01.511 M
CLIENT ADDRESS	. 0349/1, NICHOLSON KOAD, AF	MDALA CANTI		
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD	EMOGLOBIN (HbA1c):	8.4 <sup>H</sup>	%	4.0 - 6.4
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	194.38 <sup>H</sup>	mg/dL	60.00 - 140.00
	,			
INTERPRETATION:				
INTERPRETATION:	AS PER AMERICAN D	IABETES ASSOCIATIO	N (ADA):	
	AS PER AMERICAN D REFERENCE GROUP			(HBAIC) in %
			N (ADA): Sylated Hemoglogib <5.7	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		<b>SYLATED HEMOGLOGIB</b> <5.7 5.7 - 6.4	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years		SYLATED HEMOGLOGIB <5.7	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCO	SYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCO Goals of T	SYLATED HEMOGLOGIB           <5.7	< 7.0
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCO	SYLATED HEMOGLOGIB           <5.7	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCO Goals of T	SYLATED HEMOGLOGIB           <5.7	< 7.0

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

# 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 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 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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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
mmune disease, but 2. An ESR can be affe is C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOY A low ESR can be see polycythaemia), sigr is sickle cells in sickl NOTE: . ESR and C - reactive 2. Generally, ESR doe 8. CRP is not affected 1. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	does not tell the health practitioner cted by other conditions besides infl be used to monitor disease activity a ematosus <b>N ESR</b> n with conditions that inhibit the no ificantly high white blood cell count e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of s not change as rapidly as does CRP, <b>by as many other factors as is ESR, n</b> ed, it is typically a result of two type ve a higher ESR, and menstruation a	exactly wher lammation. F and response prmal sedimer t (leucocytosi ; either at the <b>naking it a be</b> ss of proteins nd pregnancy	re the inflammation is in th or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s is), and some protein abno n. e start of inflammation or a <b>tter marker of inflammation</b> globulins or fibrinogen. can cause temporary eleva	picallý used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. <b>n</b> .





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:01520470	COLL	ECTION DATE	: 10/Nov/2024 09:54AM
: KOS DIAGNOSTIC LAB	REPO	<b>PRTING DATE</b>	: 10/Nov/2024 11:30AM
: 6349/1, NICHOLSON ROAL	D, AMBALA CANTT		
	Value	Unit	Biological Reference interval
CLIN	ICAL CHEMISTRY GLUCOSE FAS'		'RY
	GLUCUSE FAS		
	MD (Pathology Chairman & Co : Mrs. AMITA BANSL : 62 YRS/FEMALE : SURJESH : : 01520470 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAI	: 62 YRS/FEMALE PATI : SURJESH REG. : 01520470 COLL : KOS DIAGNOSTIC LAB REPO : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD CEO & Consultant : 62 YRS/FEMALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01520470 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			FILE : BASIC	
CHOLESTEROL TO' by CHOLESTEROL O		154.1	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	156.63 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
		50.04		VERY HIGH: $> OR = 500.0$
HDL CHOLES I EKO by SELECTIVE INHIBIT	L (DIRECT): SERUM Ton	56.64	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		66.13	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 CHOLES' by CALCULATED, SPE		97.46	mg/dL	VERT HIGH. > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
LDL CHOLESTER		31.33	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SEF	RUM	464.83	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.72	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S		1.17	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.77 <sup>L</sup>	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.

 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.
 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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN DIRECT by DIAZO MODIFIED, S BILIRUBIN INDIRE	PECTROPHOTOMETRY (CONJUGATED): SERUM SPECTROPHOTOMETRY CT (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.41 0.12 0.29 10.7	mg/dL mg/dL mg/dL U/L	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 0.10 - 1.00 7.00 - 45.00
	RIDOXAL PHOSPHATE	9.6	U/L	0.00 - 49.00
	RIDOXAL PHOSPHATE	0.0		
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	1.11	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	98.02	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	15.45	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.45	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.57	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.88	gm/dL	2.30 - 3.50
A : G RATIO: SERUI by CALCULATED, SPE	M ectrophotometry	1.24	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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Test Name		Value Unit	Biological Reference interva

## DECREASED:

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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NAME	: Mrs. AMITA BANSL			
AGE/ GENDER	: 62 YRS/FEMALE	PA	FIENT ID	: 1667342
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	:012411100020
REFERRED BY	:	RE	GISTRATION DATE	: 10/Nov/2024 09:39 AM
BARCODE NO.	:01520470	CO	LLECTION DATE	: 10/Nov/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 10/Nov/2024 12:37PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTION 1	TEST (COMPLETE)	
UREA: SERUM		55.72 <sup>H</sup>	mg/dL	10.00 - 50.00
by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU by ENZYMATIC, SPEC		1.08	mg/dL	0.40 - 1.20
BLOOD UREA NITR	OGEN (BUN): SERUM	26.04 <sup>H</sup>	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY COGEN (BUN)/CREATININE	<b>U</b>	RATIO	10.0 - 20.0
RATIO: SERUM	UGEN (DUN)/ CREATININE	24.11 <sup>H</sup>	KATIO	10.0 - 20.0
by CALCULATED, SPE				
UREA/CREATININ by CALCULATED, SPE		51.59	RATIO	
URIC ACID: SERUM		6.46	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	E PEROXIDASE			
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.48	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		3.18	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY		0	
ELECTROLYTES		144.5		
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	144.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUI	M	4.69	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		100.15		00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV		108.15	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM	ERULAR FILTERATION RATE	58.1		
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				
	een 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.



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
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	: KOS DIAGNOSTIC LAB	REPORTING DAT	E : 10/Nov/2024 12:	37PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value Un	it Biologica	al Reference interval	
I. Acute tubular neci			e uropathy).		
Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. <b>DECREASED RATIO (</b> Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir Cephalosporin the STIMATED GLOMERI CKD STAGE G1	rosis. nd starvation. te. ecreased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent i of inappropiate antidiuretic harmone <b>10:1) WITH INCREASED CREATININE:</b> apy (accelerates conversion of creatin releases muscle creatinine). who develop renal failure. D: osis (acetoacetate causes false increatin ncreased BUN/creatinine ratio). rapy (interferes with creatinine meases <b>ULAR FILTERATION RATE:</b> DESCRIPTION Normal kidney function	n blood). e) due to tubular secretion of urea ne to creatinine). ase in creatinine with certain met surement). GFR (mL/min/1.73m2) >90	a. hodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria	al ratio when dehydrat	
Acute tubular neuroportein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir CED STAGE CKD STAGE	rosis. nd starvation. te. ecreased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent i of inappropiate antidiuretic harmone <b>10:1) WITH INCREASED CREATININE:</b> apy (accelerates conversion of creatin releases muscle creatinine). who develop renal failure. D: osis (acetoacetate causes false increation creased BUN/creatinine ratio). rapy (interferes with creatinine meased ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	n blood). e) due to tubular secretion of urea ne to creatinine). ase in creatinine with certain met surement). GFR (mL/min/1.73m2)	a. hodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydrat	
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	MD (Pathology & Chairman & Cons	Microbiology) sultant Pathologist CEO & Consult	1D (Pathology) ant Pathologist
	Dr. Vinay Ch		am Chopra

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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CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	BALA CANTT			
Test Name			Value	Unit	<b>Biological Reference</b>	interval
			IRON	PROFILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY		51.3	µg/dL	37.0 - 145.0	
UNSATURATED IR SERUM by FERROZINE, SPEC			286.05	μg/dL	150.0 - 336.0	
TOTAL IRON BIND SERUM by SPECTROPHOTON		(TIBC)	337.35	μg/dL	230 - 430	
%TRANSFERRIN S. by CALCULATED, SPE			15.21	%	15.0 - 50.0	
TRANSFERRIN: SE			239.52	mg/dL	200.0 - 350.0	
<u>INTERPRETATION:-</u> VARIAB		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA	THALASSENILA ~ /2 TOAIT	
SERUM II		Normal to Re		Reduced	THALASSEMIA α/β TRAIT Normal	

**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.

Increased

Decreased < 12-15 %

Decreased

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):

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

Decreased

Decreased

Normal to Increased

#### % 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.



**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



Normal

Normal

Normal or Increased

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		<b>-hopra</b> y & Microbiology) onsultant Pathologi	M	m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. AMITA BANSL				
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1667342	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411100020	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 10/Nov/2024 09:39 AM	
BARCODE NO.	:01520470		COLLECTION DATE	: 10/Nov/2024 09:54AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 10/Nov/2024 11:30AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	г		
Test Name		Value	Unit	Biological Refe	erence interval
		ENDOC	CRINOLOGY		
	1	HYROID FUN	CTION TEST: TOTAI		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUN	1.025 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM VESCENT MICROPARTICLE IMMUN	9.15 DASSAY)	µgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SE		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the trilodothyronine (T3).Fai	measured serum TSH concentrations	. TSH stimulates the p	roduction and secretion of the	pm. The variation is of the order of 5 metabolically active hormones, thy ther underproduction (hypothyroidis	roxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	]
Primary Hypothyroidis	m: Reduced	t	Reduced	Increased (Significantly)	

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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTHYRONINE (T3) THYROX		(INE (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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
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Test Name	Value	Unit	<b>Biological Reference interval</b>

i est name			value	UIII		biological Reference Interval
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	IMENDATIONS OF TSH LE	VELS DURING PRE	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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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 (Patho	a <b>y Chopra</b> blogy & Microbiology) & Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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IENT ADDRESS	: 6349/1, NICHOLSON I			
est Name		Value	Unit	Biological Reference interval
	DROXY VITAMIN D3): S ESCENCE IMMUNOASSAY)	ERUM 43.8	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
				TOXICITY: > 100.0
DEFI		< 20		TOXICITY: > 100.0
DEFI INSUF	CIENT: FICIENT: ED RANGE:	< 20 21 - 29 30 - 100	n	TOXICITY: > 100.0 g/mL
INSUFI PREFFERI INTOXI Vitamin D compour	FICIENT: ED RANGE: ICATION: nds are derived from dieta	21 - 29 30 - 100 > 100 iry ergocalciferol (from pla	nts, Vitamin D2), or cho	TOXICITY: > 100.0
DEFI INSUF PREFFER INTOXI Vitamin D compour onversion of 7- dihy 25-OHVitamin D r ssue and tightly boo Vitamin D plays a p osphate reabsorpt Severe deficiency n EcREASED: Lack of sunshine ex Inadequate intake, Depressed Hepatic Secondary to advar Osteoporosis and S Enzyme Inducing di ICREASED: Hypervitaminosis I vere hypercalcemia	FICIENT: ED RANGE: ICATION: Inds are derived from dieta drocholecalciferol to Vital represents the main body r und by a transport protein primary role in the mainte cion, skeletal calcium depo- may lead to failure to mine goosure. malabsorption (celiac dis Vitamin D 25- hydroxylase becondary Hyperparathroir rugs: anti-epileptic drugs I D is Rare, and is seen only a and hyperphophatemia.	21 - 29 30 - 100 > 100 inv ergocalciferol (from pla min D3 in the skin upon Ul resevoir and transport form while in circulation. nance of calcium homeost isition, calcium mobilizatic eralize newly formed osteo ease) e activity dism (Mild to Moderate de ike phenytoin, phenobarbi after prolonged exposure	n n n n n n n n n n n n n n n n n n n	TOXICITY: > 100.0 g/mL g/mL g/mL

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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BARCODE NO.	: 01520470	COLL	ECTION DATE	: 10/Nov/2024 09:54AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 10/Nov/2024 11:30AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD				
Test Name		Value	Unit	Biological Reference interval	
TAMIN B12/CO	BALAMIN: SERUM	678	ng/mI	190.0 - 890.0	
	BALAMIN: SERUM VESCENT MICROPARTICLE IMMUNO.		pg/mL	190.0 - 890.0	
INTERPRETATION:-					
	SED VITAMIN B12	DECREASED VITAMIN B12			
1.Ingestion of Vitar		1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
2.Ingestion of Estro 3.Ingestion of Vitar		2.DRUGS:Aspir 3.Ethanol Igest		, Colchicine	
4.Hepatocellular ir		4. Contraceptiv			
5.Myeloproliferativ		5.Haemodialys			
6.Uremia	lamin) is necessary for hemator	6. Multiple My			
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 defici- leal resection, smal 5.Vitamin B12 defici- proprioception, poo the neurologic defect 5.Serum methylmalo 7.Follow-up testing f	tained only from animal protein vitamin B12 stores very economi- ency may be due to lack of IF se I intestinal diseases). ency frequently causes macrocy r coordination, and affective be to without macrocytic anemia. ponic acid and homocysteine leve for antibodies to intrinsic factor	ns and requires intrinsic f ically, reabsorbing vitami cretion by gastric mucosa vtic anemia, glossitis, per havioral changes. These r Is are also elevated in vit (IF) is recommended to i	Factor (IF) for absorp n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, manifestations may o amin B12 deficiency dentify this potentia	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 10/Nov/2024 03:04 MM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL P	ATHOLOGY	
	URINE ROU		OSCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YEL	LOW	PALE YELLOW
by DIP STICK/REFLEC TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMI	NATION			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	2+		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (	-ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE		NEGATIVE (-VE)
MICROSCOPIC EXA		NECATIVE	(up) /IIDE	0.3
RED BLOOD CELLS by MICROSCOPY ON C	(RBUS) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (	(-ve) /HPF	0 - 3





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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 10/Nov/2024 02:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		5-6	/HPF	ABSENT
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CASTS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
BACTERIA	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
OTHERS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT	ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\*\*\* End Of Report \*\*\*



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