



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	Mrs. SUSHMA ARORA 63 YRS/FEMALE SURJESH 01516275 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AME	BALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1601554 : 012409040019 : 04/Sep/2024 09:34 AM : 04/Sep/2024 10:05AM : 04/Sep/2024 10:43AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	ELLNESS PANEL: 1.5	
	CON	MPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (RBC	S) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11.7 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC)		4.74	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOC	USING, ELECTRICAL IMPEDENCE (PCV)	37.4	%	37.0 - 50.0
by CALCULATED BY AUT MEAN CORPUSCULAR V	OMATED HEMATOLOGY ANALYZER	78.9 ^L	fL	80.0 - 100.0
by CALCULATED BY AUT	OMATED HEMATOLOGY ANALYZER			27.0 - 34.0
	OMATED HEMATOLOGY ANALYZER	24.6 ^L	pg	
	HEMOGLOBIN CONC. (MCHC)	31.2 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTIO	N WIDTH (RDW-CV) omated hematology analyzer	13.8	%	11.00 - 16.00
RED CELL DISTRIBUTIO	N WIDTH (RDW-SD)	40.7	fL	35.0 - 56.0
by CALCULATED BY AUT MENTZERS INDEX by CALCULATED	OMATED HEMATOLOGY ANALYZER	16.65	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated		22.89	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (\	<u>NBCS)</u>			
TOTAL LEUCOCYTE COL	INT (TLC) Y SF CUBE & MICROSCOPY	10030	/cmm	4000 - 11000
NUCLEATED RED BLOO	D CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED BLOO	OMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS by FLOW CYTOMETRY BY	Y SF CUBE & MICROSCOPY	69	%	50 - 70

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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NAME	: Mrs. SUSHMA ARORA			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 04/Sep/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
LYMPHOCYTES		26	%	20 - 40
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
	Y BY SF CUBE & MICROSCOPY		70	1-0
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		4	%	2 - 12
		0	%	0 - 1
		0	70	0-1
ABSOLUTE LEUKOCY	(TES (WBC) COUNT			
ABSOLUTE NEUTRO	PHIL COUNT	6921	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	2/00	luna	000 1000
ABSOLUTE LYMPHO	LYTE COUNT Y BY SF CUBE & MICROSCOPY	2608	/cmm	800 - 4900
ABSOLUTE EOSINOP		100	/cmm	40 - 440
-	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONOCY	TE COUNT Y BY SF CUBE & MICROSCOPY	401	/cmm	80 - 880
	HER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (P		268000	/cmm	150000 - 450000
· · ·	FOCUSING, ELECTRICAL IMPEDENCE	200000		
PLATELETCRIT (PCT)		0.29	%	0.10 - 0.36
ы нүрко руламіс і MEAN PLATELET VO	FOCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE		IL.	0.00 - 12.0
PLATELET LARGE CEI		87000	/cmm	30000 - 90000
by HYDRO DYNAMIC F PLATELET LARGE CE	FOCUSING, ELECTRICAL IMPEDENCE	32.3	%	11.0 - 45.0
	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	32.3	70	11.0 - 40.0
PLATELET DISTRIBU		16.1	%	15.0 - 17.0
•	FOCUSING, ELECTRICAL IMPEDENCE			

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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BARCODE NO.	:01516275	CO	LLECTION DATE	: 04/Sep/2024 10:05	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 04/Sep/2024 03:25	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		1	
Test Name		Value	Unit	Biological R	Reference interval
	GLYC	OSYLATED HAEN	/IOGLOBIN (HBA1C)		
GLYCOSYLATED HAEN WHOLE BLOOD	NOGLOBIN (HbA1c):	6.2	%	4.0 - 6.4	
ESTIMATED AVERAGE		131.24	mg/dL	60.00 - 140.	00
	AS PER AMERICAN E	DIABETES ASSOCIATIO	ON (ADA):		
-	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %	
	abetic Adults >= 18 years	/	<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
D	iagnosing Diabetes	_	>= 6.5		
			Age > 19 Years	7.0	
Thorapout	ic goals for glycemic control	Goals of		< 7.0	
merapeut	ic goals for gryceniic control	Actions Su	Age < 19 Years	>8.0	
			Aye < 19 fears		

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Sep/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT'	ſ	
Test Name		Value	Unit	Biological Reference interval
	FRVTH		IMENTATION RATE (ESI	5)
by MODIFIED WESTER NTERPRETATION: 1. ESR is a non-specifi mmune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also th condition with LOW 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 elevated 5. Women tend to hav 5. Drugs such as dextil	does not tell the health practition cted by other conditions besides i matosus V ESR n with conditions that inhibit the ificantly high white blood cell cou e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does Cf by as many other factors as is ESR ed, it is typically a result of two ty ve a higher ESR, and menstruation	ner exactly whe nflammation. F ty and response normal sedime unt (leucocytos R. of inflammatio RP, either at the t, making it a be pes of proteins and pregnanc	re the inflammation is in the or this reason, the ESR is type to therapy in both of the al ntation of red blood cells, su is), and some protein abnor n. e start of inflammation or as etter marker of inflammation , globulins or fibrinogen. y can cause temporary eleva	on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.
			Andrew	





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		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:04/Sep/2024 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	TING (F)	
	F): Plasma	85.63	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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	6349/1, NICHOLSON ROAD		ATING DATE	. 04/ Sep/ 2024 11.12AW
Fest Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: S	SERLIM	178.81	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXID		170.01	mg/ue	BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
RIGLYCERIDES: SERUN by GLYCEROL PHOSPHA	Л TE OXIDASE (ENZYMATIC)	103.02	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DII by SELECTIVE INHIBITION		48.42	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: SEF by CALCULATED, SPECT		109.79	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 CHOLESTERC		130.39 ^H	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
LDL CHOLESTEROL: SE		20.6	mg/dL	0.00 - 45.00
OTAL LIPIDS: SERUM by CALCULATED, SPECT		460.64	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RA by CALCULATED, SPECT		3.69	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
DL/HDL RATIO: SERUN by calculated, spect		2.27	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.13 ^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.

 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	
	LIVE		ON TEST (COMPLETE)		
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry		0.53	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT	C (UNCONJUGATED): SERUM	0.4	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	18.9	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	15.2	U/L	0.00 - 49.00	
AST/ALT RATIO: SER by CALCULATED, SPE		1.24	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	85.53	U/L	40.0 - 130.0	
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	17.08	U/L	0.00 - 55.0	
TOTAL PROTEINS: SE	ERUM	6.2	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL G		3.9	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by CALCULATED, SPE		2.3	gm/dL	2.30 - 3.50	
A : G RATIO: SERUM by CALCULATED, SPE	I	1.7	RATIO	1.00 - 2.00	

<u>INTERPRETATION</u> 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C.	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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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Test Name		Value	Unit	Biological Reference interval
	КІ		ON TEST (COMPLETE)	
UREA: SERUM		24.77	mg/dL	10.00 - 50.00
CREATININE: SERUM		0.87	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC BLOOD UREA NITRO	GEN (BUN): SERUM	11.57	mg/dL	7.0 - 25.0
by CALCULATED, SPE BLOOD UREA NITRO	<i>CTROPHOTOMETRY</i> GEN (BUN)/CREATININE	13.3	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE				
UREA/CREATININE R	ATIO: SERUM	28.47	RATIO	
by CALCULATED, SPE URIC ACID: SERUM		6.21	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		9.63	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER	UM	3.3	mg/dL	2.30 - 4.70
ELECTROLYTES	ATE, SPECTROPHOTOMETRY			
Sodium: Serum		141.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.11	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM by ISE (ION SELECTIV		106.2	mmol/L	90.0 - 110.0
	RULAR 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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	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugan MD CEO & Consultan	(Pathology)
NAME	: Mrs. SUSHMA ARORA			
AGE/ GENDER	: 63 YRS/FEMALE	PATI	ENT ID	: 1601554
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012409040019
REFERRED BY	:	REGI	STRATION DATE	: 04/Sep/2024 09:34 AM
BARCODE NO.	:01516275	COLI	ECTION DATE	: 04/Sep/2024 10:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	:04/Sep/2024 11:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorption			bleeding, thyrotoxic	cosis, Cushing's syndrome, high protein diet,
	tetracycline, glucocorticoids)	detiony		
	20:1) WITH ELEVATED CREATININ			
	a (BUN rises disproportionately		.g. obstructive uropa	athy).
	superimposed on renal disease 10:1) WITH DECREASED BUN :			
1. Acute tubular necr				
2. Low protein diet a	nd starvation.			

2. Low protein diet and starvation.

3. Severe liver disease.

- 4. Other causes of decreased urea synthesis.
- 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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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. SUSHMA ARORA		
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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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CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	61.7	μg/dL	37.0 - 145.0
UNSATURATED IRON		TY (UIBC) 234.53	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPEC	TROPHOTOMETERY			
TOTAL IRON BINDIN		296.23	μg/dL	230 - 430
:SERUM by SPECTROPHOTOM	IETERY			
%TRANSFERRIN SAT	URATION: SERUM	20.83	%	15.0 - 50.0
by CALCULATED, SPE TRANSFERRIN: SERU		<i>(FERENE)</i> 210.32	mg/dL	200.0 - 350.0
by SPECTROPHOTOM		210.32	Thy/uL	200.0 - 350.0
INTERPRETATION:-				
VARIAB	BLES A	NEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	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
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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NAME	: Mrs. SUSHMA ARORA			
AGE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1601554
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:04/Sep/2024 11:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	ТНҮ	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY	0.911 r)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM NESCENT MICROPARTICLE IMMUNOASSAY	8.67 Y)	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	1.749 Y)	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fa		mulates the p	roduction and secretion of the m	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

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

LIMITATIONS:-

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.

TRIIODOTHY	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		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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NAME	: Mrs. SUSHM	IA ARORA				
AGE/ GENDER	: 63 YRS/FEM	ALE		PATIENT ID	: 1601554	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 0124090400	19
REFERRED BY	:			REGISTRATION DAT	FE : 04/Sep/2024 (09:34 AM
BARCODE NO.	:01516275			COLLECTION DATE	:04/Sep/20241	0:05AM
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	:04/Sep/20241	1:12AM
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AN	ÍBALA CANTT			
Test Name			Value	Unit	Biolog	ical 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
RECON	IMENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (μIU/mL)	
1st Trimester		0.10 – 2.50		
2nd Trimester	0.20 – 3.00			
3rd Trimester		0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



1 A B # 17	Chairman & Con	8	st CEO & Consultan		
AME	: Mrs. SUSHMA ARORA			1001554	
GE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1601554	
OLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409040019	43.4
EFERRED BY	: : 01516275		REGISTRATION DATE	: 04/Sep/2024 09:34	
LIENT CODE.	: KOS DIAGNOSTIC LAB		COLLECTION DATE REPORTING DATE	: 04/Sep/2024 10:05 : 04/Sep/2024 11:12	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI		. 04/ Sep/ 2024 11.12	HIVI
est Name		Value	Unit	Biological F	eference interval
			TAMINS		
			IYDROXY VITAMIN D3		
	ROXY VITAMIN D3): SERUM	20.7 ^L	ng/mL		': < 20.0 NCY: 20.0 - 30.0
					Y: 30.0 - 100.0
				TOXICITY: >	
NTERPRETATION:		20		a /mal	
	CIENT: FICIENT:	< 20 21 - 29		ig/mL ig/mL	
	D RANGE:	30 - 100	r	ng/mL	
	CATION:	> 100 ergocalciferol (from plants, Vitamin D2), or ch		g/mL	
issue and tightly bou Vitamin D plays a p hosphate reabsorpt .Severe deficiency n DECREASED: .Lack of sunshine ex .Inadequate intake, .Depressed Hepatic .Secondary to advan .Osteoporosis and S	malabsorption (celiac disease) Vitamin D 25- hydroxylase activi	in circulation. of calcium home calcium mobiliz newly formed os ty Mild to Moderate enytoin, phenoba rolonged expose	eostatis. It promotes calcius ation, mainly regulated by steoid in bone, resulting in e deficiency) arbital and carbamazepine, ure to extremely high doses	m absorption, renal calci parathyroid harmone (P rickets in children and os that increases Vitamin E	um absorption and (H). teomalacia in adults.) metabolism. ccurs, it can result in





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				: 04/Sep/2024 10:05AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 04/Sep/2024 11:15AM			
CLIENT ADDRESS	CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT						
Test Name		Value	Unit	Biological Reference interval			
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM iescent microparticle immunoa	244 SSAY)	pg/mL	190.0 - 890.0			
	INCREASED VITAMIN B12		DECREASED VITAMIN B12				
1.Ingestion of Vitan		1.Pregnancy					
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine					
3.Ingestion of Vitan		3.Ethanol Igestion					
4.Hepatocellular in 5.Myeloproliferativ		4. Contraceptive Harmones 5. Haemodialysis					
6.Uremia			6. Multiple Myeloma				
 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, smal 5.Vitamin B12 deficie proprioception, poor the neurologic defec 6.Serum methylmalo 7.Follow-up testing f NOTE:A normal seruu deficiency at the cell 	ency may be due to lack of IF sect l intestinal diseases). ency frequently causes macrocyt coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine levels or antibodies to intrinsic factor (m concentration of vitamin B12 d	s and requires intrinsic f cally, reabsorbing vitamin retion by gastric mucosa ic anemia, glossitis, peri avioral changes. These r s are also elevated in vit IF) is recommended to i loes not rule out tissue c f clinical symptoms sugg	actor (IF) for absorp n B12 from the ileun (eg, gastrectomy, g pheral neuropathy, nanifestations may o amin B12 deficiency dentify this potentia deficiency of vitamin	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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NAME :: Mrs. SUSHMA ARORA AGE/ CEXIDER :: 63 YRS/TEMALE PATIENT ID :: 1601554 COLLECTED BY :: URESH REG. NO./LAB NO. :: 012409040019 REFEREND BY :: REG. NO./LAB NO. :: 012409(40019) REFEREND BY :: REG. NO./LAB NO. :: 012409(40019) REFEREND BY :: OL/Sep/2024 10.05AM CLIENT CODE :: KOS DIACNOSTIC LAB REPORTING DATE :: 04/Sep/2024 10.05AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANT Test Name Value Unit Biological Reference Interval CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION PHYSICAL EXAMINATION OUANITY RECIEVED 10 ml by OF STOCKREFLECTANCE SPECTROPHOTOMETRY OULOUR by OF STOCKREFLECTANCE SPECTROPHOTOMETRY URINE ROUTINE & MICROSCOPIC EXAMINATION PHYSICAL EXAMINATION REACTION VC CLEAR by OF STOCKREFLECTANCE SPECTROPHOTOMETRY OULOR BY OF STOCKREFLECTANCE SPECTROPHOTOMETRY DUP STOCKREFLECTANCE SPECTROPHOTOMETRY DUP STOCKREFLECTANCE SPECTROPHOTOMETRY PHOTEN VC PHOLORES SPECTROPHOTOMETRY DUP STOCKREFLECTANCE SPECTROPHOTOMETRY Negative NEGATIVE (ve) DUP STOCKREFLECTANCE SPECTROPHOTOMETRY NEGATIVE (ve) DY DIP STOCKREFLECTANCE SPECTROPHOTOMETRY NEGATIVE (ve) DY DIP ST		Dr. Vinay Cho MD (Pathology & Chairman & Cons				
COLLECTED BYSURJESHREG. NO./LAB NO.: 012409040019REFEREND BY:Nd/Sep/2024 09.34 AMBARCODE NO.:: 01516275COLLECTION DATE:: 04/Sep/2024 10.05AMCLENT CODE NO.:: 05349/1, NICHOLSON ROAD, AMBALA CANTREFORTING DATE:: 04/Sep/2024 11:56AMCLENT ADDRESS:: 0349/1, NICHOLSON ROAD, AMBALA CANTBiological Reference intervalCLINICAL PATHOLOGYValueUnitBiological Reference intervalCLINICAL PATHOLOGYVAINT RECIEVEDCUINICAL EXAMINATIONMURISCREPCIEVEDOUANTITY RECIEVEDVAINT RECIEVEDOUANTITY RECIEVEDOUANTITY RECIEVEDOUANTITY RECIEVEDNd MBER YELLOWPALE YELLOWPALE YELLOWDy DIP STICKREPLECTANCE SPECTROPHOTOMETRYMABER YELLOWPALE YELLOWPALE YELLOWDy DIP STICKREPLECTANCE SPECTROPHOTOMETRYDy DI	NAME	: Mrs. SUSHMA ARORA				
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BARCODE NO. :01516275 COLLECTION DATE :04/Sep/2024 10.05AM CLENT CODE. :SOS DIAGNOSTIC LAB REPORTING DATE :04/Sep/2024 11.56AM CLENT ADDREST :S349/1, NICHOLSON ROAD, AMBALA CANT Biological Reference interval Test Name Value Unit Biological Reference interval PUSICAL EXAMINATION URINE CONCOURCE EXAMINATION PUSICAL EXAMINATION OUANTITY RECIEVED 10 ml by DIP STICKREFLECTANCE SPECTROPHOTOMETRY AMBER YELLOW PALE YELLOW by DIP STICKREFLECTANCE SPECTROPHOTOMETRY HAZY CLEAR by DIP STICKREFLECTANCE SPECTROPHOTOMETRY 1.01 1.002 - 1.030 by DIP STICKREFLECTANCE SPECTROPHOTOMETRY Negative NEGATIVE (-ve) by DIP S	REFERRED BY					
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	by DIP STICK/REFLEC					

MICROSCOPIC EXAMINATION

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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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. SUSHMA ARORA					
AGE/ GENDER	: 63 YRS/FEMALE	PATIENT ID REG. NO./LAB NO.		: 1601554 : 012409040019 : 04/Sep/2024 09:34 AM : 04/Sep/2024 10:05AM : 04/Sep/2024 11:56AM		
COLLECTED BY	: SURJESH					
REFERRED BY			ATION DATE			
BARCODE NO.			ION DATE			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE				
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3		
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5		
EPITHELIAL CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-4	/HPF	ABSENT		
CRYSTALS by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)		
CASTS		NEGATIVE (-ve)		NEGATIVE (-ve)		

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS	1-4	/HPF	ABSENT	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
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	· ,		ζ, γ	
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	
INICIONIONAS VAUNALIS (FRUTUZUA)	ADJENT		ADJENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***





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

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