



	Chairman & Consultan	obiology) nt Pathologist	MD CEO & Consultan) (Pathology) t Pathologist
NAME	: Mrs. ARUNA GUPTA			
AGE/ GENDER	: 76 YRS/FEMALE	P	PATIENT ID	: 1781707
COLLECTED BY	: SURJESH	F	REG. NO./LAB NO.	: 012503070024
REFERRED BY	:	F	REGISTRATION DATE	: 07/Mar/2025 09:04 AM
BARCODE NO.	:01526613	C	COLLECTION DATE	:07/Mar/202509:16AM
	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Mar/2025 09:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Fest Name		Value	Unit	Biological Reference interv
	SWAST	HYA WEL	LNESS PANEL: 1.	5
			OD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES		02 000111 (020)	
HAEMOGLOBIN (HB)		12.8	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (R	RC) COUNT	4.42	Millions	/cmm 3.50 - 5.00
by HYDRO DYNAMIC FO	CUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLU	ME (PCV) TOMATED HEMATOLOGY ANALYZER	39.9	%	37.0 - 50.0
MEAN CORPUSCULA		90.3	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	28.9	pg	27.0 - 34.0
MEAN CORPUSCULA	TOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	32	g/dL	32.0 - 36.0
	TOMATED HEMATOLOGY ANALYZER TION WIDTH (RDW-CV)	13.5	%	11.00 - 16.00
	TOMATED HEMATOLOGY ANALYZER	13.5		
	TION WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	45.7	fL	35.0 - 56.0
MENTZERS INDEX		20.43	RATIO	BETA THALASSEMIA TRAI
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA
				>13.0
GREEN & KING INDE	EX	27.52	RATIO	BETA THALASSEMIA TRAI
S, ONEOOLATED				65.0 IRON DEFICIENCY ANEMIA
				65.0
WHITE BLOOD CEL		7540		4000 11000
FOTAL LEUCOCYTE (by flow cytometry b	LUUNT (TLC) BY SF CUBE & MICROSCOPY	7540	/cmm	4000 - 11000
	OOD CELLS (nRBCS)	NIL		0.00 - 20.00
	OOD CELLS (nRBCS) % TOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. ARUNA GUPTA AGE/ GENDER : 76 YRS/FEMALE **PATIENT ID** :1781707 **COLLECTED BY** : SURJESH :012503070024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Mar/2025 09:04 AM : **BARCODE NO.** :01526613 **COLLECTION DATE** :07/Mar/2025 09:16AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Mar/2025 09:37AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 66 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 23 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4976 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1734 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 377 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 452 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0.0 - 999.00 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 327000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.3 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 9 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 62000 /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 19.1 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



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







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Test Name	Valu	e Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:07/Mar/2025 12:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	5.4 108.28	AOGLOBIN (HBA1) % mg/dL	4.0 - 6.4 60.00 - 140.00
INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY)			
	AS PER AMERICAN D REFERENCE GROUP	IABETES ASSOCIATION (ADA): GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		
	abetic Adults >= 18 years	GLYC	<pre>>SYLATED HEIVIOGLOGIB <5.7</pre>	
	abelie Audits 2- To years			
А	t Risk (Prediabetes)			
	t Risk (Prediabetes) iagnosing Diabetes		<u>5.7 - 6.4</u> >= 6.5	
D		Goals of Actions Su	>= 6.5 Age > 19 Years Therapy:	< 7.0 >8.0
D	iagnosing Diabetes		>= 6.5 Age > 19 Years Therapy: uggested: Age < 19 Years	

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COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	RTING DATE	:07/Mar/2025 10:14AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIMENT	ATION RATE (I	ESR)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also I systemic lupus erythe CONDITION WITH LOV A low ESR can be see polycythaemia), sign as sickle cells in sickl NOTE: I. ESR and C - reactive 2. Generally, ESR doe 8. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha 5. Drugs such as dext	does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus W 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 o s not change as rapidly as does CRF by as many other factors as is ESR, dt, it is typically a result of two typ ye a higher ESR, and menstruation a	er exactly where the in flammation. For this re- and response to thera ormal sedimentation on the (leucocytosis), and child inflammation. P, either at the start of making it a better mar bes of proteins, globulin and pregnancy can cau	flammation is in the eason, the ESR is typ apy in both of the all of red blood cells, su some protein abnor is inflammation or as ker of inflammation is or fibrinogen.	bicallý used in conjunctión with other test suc bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc it resolves.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:07/Mar/2025 12:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI		TRY/BIOCHEMIST FASTING (F)	RY

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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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Test Name		Value	Unit	Biological Reference interval
		I IPIN PR	OFILE : BASIC	
CHOLESTEROL TOTA	I · SFRUM	160.61	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXID		100.01	ling/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER	RUM	101.26	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHA	TE OXIDASE (ENZYMATIC)		0	BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM		52.6	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION	V			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: S		87.76	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECT	ROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLESTE		108.01	mg/dI	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPECT		108.01	mg/dL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL		20.25	mg/dL	0.00 - 45.00
by CALCULATED, SPECT TOTAL LIPIDS: SERUI		422.48	mg/dL	350.00 - 700.00
by CALCULATED, SPECT				
CHOLESTEROL/HDL by CALCULATED, SPECT		3.05	RATIO	LOW RISK: 3.30 - 4.40
Sy UNEOULATED, SPECT				AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.67	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	1.93 ^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
	LIVER		N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SH	: SERUM PECTROPHOTOMETRY	0.43	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	16.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM		10.3	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.59	RATIO	0.00 - 46.00
ALKALINE PHOSPI by Para Nitrophen Propanol	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	83.2	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	19.19	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.03	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.12	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.91	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.42	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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INTERPRETATION





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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).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



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MBBS, MD (PATHOLOGY)







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	KIDNI	EY FUNCTION	I TEST (COMPLETE)	
UREA: SERUM		17.05	mg/dL	10.00 - 50.00
-	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU by ENZYMATIC, SPEC		0.75	mg/dL	0.40 - 1.20
•	ROGEN (BUN): SERUM	7.97	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY		-	
BLOOD UREA NITH RATIO: SERUM	ROGEN (BUN)/CREATININE	10.63	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		22.73	RATIO	
by CALCULATED, SPE URIC ACID: SERUM		4.02	mg/dL	2.50 - 6.80
by URICASE - OXIDAS		4.02	ilig/ uL	2.00 - 0.00
CALCIUM: SERUM		10.08	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		3.9	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE	DATE, SPECTROPHOTOMETRY	0.0	ing, all	
ELECTROLYTES				
SODIUM: SERUM		139.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU		5.42 ^H	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		5.42	IIIII01/ L	3.30 - 3.00
CHLORIDE: SERUM		104.48	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV FSTIMATED GLOM	TERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	82.5		
by CALCULATED				
INTERPRETATION: To differentiate betw	veen pre- and post renal azotemia.			

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.



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mrs. ARUNA GUPTA					
AGE/ GENDER	: 76 YRS/FEMALE		PATIENT ID	: 1781707		
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 0125030700	124	
	. SOIWLOIT					
REFERRED BY	:		REGISTRATION DA			
BARCODE NO.	:01526613		COLLECTION DATI			
CLIENT CODE.	: KOS DIAGNOSTIC LAP	3	REPORTING DATE	: 07/Mar/2025	01:14PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT'	Г			
Test Name		Value	Uni	it Biolo	gical Reference interval	
	0:1) WITH ELEVATED CREA (BUN rises disproportion		nine) (e.a. obstructive			





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NAME	: Mrs. ARUNA GUPTA		
AGE/ GENDER	: 76 YRS/FEMALE	PATIENT ID	: 1781707
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503070024
REFERRED BY	:	REGISTRATION DATE	: 07/Mar/2025 09:04 AM
BARCODE NO.	:01526613	COLLECTION DATE	:07/Mar/202509:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 07/Mar/2025 01:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue 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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REFERRED BY	:			REGISTRATION DATE	: 07/Mar/2025 09:04 AM	
BARCODE NO.	:01526613			COLLECTION DATE	: 07/Mar/2025 09:16AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 07/Mar/2025 12:37PM	
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	BALA CANTT			
Test Name			Value	Unit	Biological Reference inte	rval
			IRON	PROFILE		
IRON: SERUM	TROPHOTOMETRY	,	66.7	μg/dL	37.0 - 145.0	
UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CA	APACITY (UIBC)	296.1	µg/dL	150.0 - 336.0	
TOTAL IRON BIND SERUM	ING CAPACITY		362.8	µg/dL	230 - 430	
%TRANSFERRIN S by CALCULATED, SPE	ATURATION: S		18.38	%	15.0 - 50.0	
TRANSFERRIN: SE	RUM		257.59	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAE		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA		
SERUM I	RON:	Normal to Re	educed	Reduced	Normal	

Norma TOTAL IRON BINDING CAPACITY: Normal Decreased Increased % TRANSFERRIN SATURATION: Decreased Decreased < 12-15 % Normal **SERUM FERRITIN:** Normal to Increased Decreased Normal or Increased

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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):

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

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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BARCODE NO.	:01526613	COLL	ECTION DATE	:07/Mar/202509:16AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:07/Mar/2025 12:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Refe	rence interval
		ENDOCRINO	DLOGY		
	TH	IVROID FUNCTION	TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoa	0.844 SSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle immunoa	7.12 SSAY)	µgm/dL	4.87 - 12.60	
	TING HORMONE (TSH): SERU		µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
INTERPRETATION:	-in-odian consistion and binary to the		internet between (10	an The control of the state of the state of the	
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak level: measured serum TSH concentrations. TS lure at any level of regulation of the h roidism) of T4 and/or T3.	SH stimulates the production	and secretion of the m	netabolically active hormones, thyro	oxine (T4)and
CLINICAL CONDITION	T3	T4		TSH	
Primary Hypothyroidis	m: Reduced	Red	uced I	ncreased (Significantly)	

CLINICAL CONDITION	13	14	ISH
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.

TRIIODOTH	YRONINE (T3)	THYROXINE (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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NAME	: Mrs. ARUNA GUPTA			
AGE/ GENDER	: 76 YRS/FEMALE	PATIENT ID	: 1781707	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT		

Test Name			Value	Unit	t	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	MMENDATIONS OF TSH L	EVELS 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.



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AME	: Mrs. ARUNA GUPT	'A		
GE/ GENDER	: 76 YRS/FEMALE	P	ATIENT ID	: 1781707
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LIENT CODE.	: KOS DIAGNOSTIC L		EPORTING DATE	: 07/Mar/2025 12:15PM
LIENT ADDRESS		N ROAD, AMBALA CANTT		
Cest Name		Value	Unit	Biological Reference interval
		VITA	MINS	
		VITA VITAMIN D/25 HYD		3
by CLIA (CHEMILUMINI	DROXY VITAMIN D3) ESCENCE IMMUNOASSAY	VITAMIN D/25 HYD : SERUM 24 ^L		3 DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHEMILUMINE	ESCENCE IMMUNOASSAY	VITAMIN D/25 HYD SERUM 24 ^L	PROXY VITAMIN D ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHEMILUMINE <u>NTERPRETATION:</u> DEFIC INSUFF	ESCENCE IMMUNOASSAY	VITAMIN D/25 HYD : SERUM 24^L < 20 21 - 29	PROXY VITAMIN D ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINE <u>NTERPRETATION:</u> DEFIC INSUFF PREFFERE INTOXI	ESCENCE IMMUNOASSAY	vitamin D/25 Hyp : SERUM 24 ^L < 20 21 - 29 30 - 100 > 100	PROXY VITAMIN D ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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NAME	: Mrs. ARUNA GUPTA			
AGE/ GENDER	: 76 YRS/FEMALE		PATIENT ID	: 1781707
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REFERRED BY			REGISTRATION DATE	: 07/Mar/2025 09:04 AM
BARCODE NO.	: 01526613		COLLECTION DATE	: 07/Mar/2025 09:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Mar/2025 12:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI		. 07/ Mai/ 2023 12.131 M
Test Name		Value	Unit	Biological Reference interval
VITAMIN B12/COB by CMIA (CHEMILUMIN	ALAMIN: SERUM	1887 ^H	12/COBALAMIN pg/mL	190.0 - 890.0
NTERPRETATION:-				
INCREAS 1.Ingestion of Vitam	SED VITAMIN B12	1 Drogr	DECREASED VITAMIN	J B12
2.Ingestion of Estro			1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine	
3.Ingestion of Vitam			nol Igestion	
4.Hepatocellular in			raceptive Harmones	
5.Myeloproliferativ	e disorder		nodialysis	
6.Uremia	amin) is necessary for hematopo		iple Myeloma	
2.In humans, it is obt 3.The body uses its v excreted.	ained only from animal proteins tamin B12 stores very economic ncy may be due to lack of IF secr intestinal diseases).	and requires in ally, reabsorbing retion by gastric ic anemia, glossi	trinsic factor (IF) for absorp y vitamin B12 from the ileun mucosa (eg, gastrectomy, g itis, peripheral neuropathy,	tion. 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. ARUNA GUPTA			
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BARCODE NO.	:01526613	COLLECT	TION DATE	:07/Mar/2025 09:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	:07/Mar/2025 10:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE ROU	TINE & MICROSCO	PIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	AMBER TELLOW		TALE TELLOW
TRANSPARANCY		HAZY		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMI	<u>NATION</u>			
REACTION	TANCE SPECTROPHOTOMETRY	ALKALINE		
PROTEIN		1+		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
pH		7.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0
KETONE BODIES		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EX				
RED BLOOD CELLS by MICROSCOPY ON C	(RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3



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

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BARCODE NO.	:01526613	COLLECTION DATE REPORTING DATE		: 07/Mar/2025 09:16AM : 07/Mar/2025 10:10AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		2-4	/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 NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***



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