



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam C MD (Pat CEO & Consultant Pat	hology)
NAME	: Mrs. SHIVANI MODGIL			
AGE/ GENDER	: 37 YRS/FEMALE	PATI	ENT ID :	1783213
COLLECTED BY	: SURJESH	REG.	NO./LAB NO. :	012503080038
REFERRED BY	:	REGI	STRATION DATE :	08/Mar/2025 10:53 AM
BARCODE NO.	: 01526709	COLL	ECTION DATE :	08/Mar/2025 11:09AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB		ORTING DATE :	08/Mar/2025 11:24AM
Test Name		Value	Unit	Biological Reference interval
			ESS PANEL: GT	
		PLETE BLOOD	COUNT (CBC)	
	S (RBCS) COUNT AND INDICES	10.0	. / 17	10.0 10.0
HAEMOGLOBIN (H by CALORIMETRIC	В)	13.8	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT	4.82	Millions/cm	m 3.50 - 5.00
PACKED CELL VOL		41.7	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	86.4	fL	80.0 - 100.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	28.6	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	33.2	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	13.4	%	11.00 - 16.00
RED CELL DISTRIB	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	43.1	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.93	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED		23.99	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
		7050	,	1000 11000
WHITE BLOOD CE		7250	/cmm	4000 - 11000
TOTAL LEUCOCYTE	COUNT (TLC) / BY SF CUBE & MICROSCOPY			
FOTAL LEUCOCYTE by flow cytometr NUCLEATED RED E		NIL		0.00 - 20.00

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. SHIVANI MODGIL AGE/ GENDER : 37 YRS/FEMALE **PATIENT ID** :1783213 **COLLECTED BY** : SURJESH :012503080038 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :08/Mar/2025 10:53 AM : **BARCODE NO.** :01526709 **COLLECTION DATE** :08/Mar/2025 11:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Mar/2025 11:24AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 60 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 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 4350 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2030 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 290 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 580 /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) 240000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 91000^H /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 37.7 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.4% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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Test Name	Value	Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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BARCODE NO.	: 01526709		OLLECTION DATE	: 08/Mar/2025 11:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 08/Mar/2025 12:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
Test Name		Value	Unit	Biological Reference interva
				n
			MOGLOBIN (HBA10	
WHOLE BLOOD	EMOGLOBIN (HbA1c):	7.6 ^H	%	4.0 - 6.4
ESTIMATED AVERA by HPLC (HIGH PERFO	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	171.42 ^H	mg/dL	60.00 - 140.00
INTERPRETATION:				
	AS PER AMERICAN D	ABETES ASSOCIAT	ION (ADA):	
	REFERENCE GROUP	GLYC	OSYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years		<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
	iagnosing Diabetes		>= 6.5	
D			Age > 19 Years	
D				
			Therapy:	< 7.0
	ic goals for glycemic control		Therapy: uggested:	< 7.0 >8.0
	ic goals for glycemic control	Actions S	Therapy:	

KOS Diagnostic Lab

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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	REPO	ORTING DATE	:08/Mar/2025 11:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	OCYTE SEDIMEN'	TATION RATE (ESR)
ERYTHROCYTE SEI	DIMENTATION RATE (ESR)	32 ^H	mm/1st	
systemic lupus eryth CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	ematosus W ESR In with conditions that inhibit the r hificantly high white blood cell cou- le cell anaemia) also lower the ESF e protein (C-RP) are both markers of es not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ we a higher ESR, and menstruation	normal sedimentation int (leucocytosis) , an R. of inflammation. P, either at the start , making it a better m bes of proteins, globu and pregnancy can ca	of red blood cells, s d some protein abno of inflammation or a: arker of inflammatior lins or fibrinogen. ause temporary eleva	ormalities. Šome changes in red cell shape (such s it resolves. n.





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BARCODE NO.	:01526709	C	OLLECTION DATE	:08/Mar/2025 11:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:08/Mar/2025 12:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	RY/BIOCHEMIST	TRY
		GLUCOSE F	ASTING (F)	

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 CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 08/Mar/2025 12:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		200.54 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	124.82	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
HDL CHOLESTEROI		46.73	mg/dL	HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBITI		40.75	ing/ uL	BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPE		128.85	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLEST	EROL: SERUM	153.81 ^H	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPE			0	ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERC		24.96	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	UM	525.9	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	4.29	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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:08/Mar/2025 12:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.76	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	2.67 ^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
Test Name		value	UIII	biological kelerence interval
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	1.09	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.18	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.91	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		18	U/L	7.00 - 45.00
SGPT/ALT: SERUM		32.4	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.56	RATIO	0.00 - 46.00
ALKALINE PHOSP		81.16	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	30.45	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.31	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.07	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.24 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.82	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

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

INCREASED:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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Test Name		Value Unit	Biological Reference interval

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	
	KIDNE	EY FUNCTION 7	FEST (COMPLETE)		
UREA: SERUM		11.3	mg/dL	10.00 - 50.00	
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		0.75	mg/dL	0.40 - 1.20	
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		5.28 ^L	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		7.04 ^L	RATIO	10.0 - 20.0	
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	15.07	RATIO		
URIC ACID: SERUM	[3.72	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPE		10.52	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE by Phosphomolybe		3.53	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	143.3	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		4.85	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		107.48	mmol/L	90.0 - 110.0	
	IERULAR FILTERATION RATE ERULAR FILTERATION RATE	105.1			

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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NAME : Mrs. SHIVANI MODGIL AGE/ GENDER : 37 YRS/FEMALE PATIENT ID : 1783213 COLLECTED BY : SURJESH REG. NO./LAB NO. : 012503080038 REFERRED BY : REGISTRATION DATE : 08/Mar/2025 10:53 AM BARCODE NO. : 01526709 COLLECTION DATE : 08/Mar/2025 11:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 08/Mar/2025 12:50PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 08/Mar/2025 12:50PM Value Unit Biological Reference 4. High protein intake. : : Impaired renal function plus 6. Excess protein intake. : infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protours, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) : : 8. Reduced muscle mass (subnormal creatinine production) : . 9. Certain drugs (e.g. Letracycline, glucocorticoids) : . INCREASED RATIO (<20:1) WITH ELEVATED CREATININE LEVELS: . . 1. Postrenal azotemia superimposed on renal disease. . . DECREASED RATIO (<10:1) WITH DECREASED BUN : . . </th <th></th>	
COLLECTED BY : SURJESH REG. NO./LAB NO. : 012503080038 REFERRED BY : NEGISTRATION DATE : 08/Mar/2025 10:53 AM BARCODE NO. : 01526709 COLLECTION DATE : 08/Mar/2025 11:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 08/Mar/2025 12:50PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference 4. High protein intake. : : Impaired renal function plus : 6. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high prot burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) : Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) : INCREASED RATIO (<20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia Superimposed on renal disease. DECREASED RATIO (<20:1) WITH DECREASED BUN : : 1. Acute tubular necrosis. : Low protein diet and starvation. : 3. Severe liver disease. : : Low protein diet and starvation. 3. Severe liver disease. : : :	
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7. SIADH (syndrome of inappropriate 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 should produce an increased BUN/creatinine measurement). 2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR FILTERATION RATE: CKD STAGE DESCRIPTION GFR (mL/min/1.73m2) ASSOCIATED FINDINGS	dehydration
G1 Normal kidney function >90 No proteinuria	
G2 Kidney damage with or mail or high GFR 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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:08/Mar/2025 12:50PM
BARCODE NO.	:01526709	COLLECTION DATE	:08/Mar/2025 11:09AM
REFERRED BY	:	REGISTRATION DATE	: 08/Mar/2025 10:53 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503080038
AGE/ GENDER	: 37 YRS/FEMALE	PATIENT ID	: 1783213
NAME	: Mrs. SHIVANI MODGIL		
	MD (Pathology & Mic Chairman & Consulta		D (Pathology) nt Pathologist
	Dr. Vinay Chopr		m 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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Mar/2025 03:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTI		
	,			
Test Name		Value	Unit	Biological Reference interval
TRIIODOTHYRONII		HYROID FUNC 0.804	CTION TEST: TOTAL ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOA		iig/ iii	0.00 1.00
THYROXINE (T4): S	SERUM iescent microparticle immunoa	10.25	µgm/d	L 4.87 - 12.60
THYROID STIMULA by CMIA (CHEMILUMIN	ATING HORMONE (TSH): SER	UM 0.011 ^L	µIU/ml	L 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to o day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the pr	oduction and secretion of the	<i>pm. The variation is of the order of 50%.Hence time of the</i> metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	ТЗ		T4	TSH
Primary Hypothyroidis		/	Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lov	v Normal	Normal or Low Normal	High
Primary Hyperthyroidis	sm: Increased		Increased	Reduced (at times undetectable)

LIMITATIONS:-

Subclinical Hyperthyroidism:

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.

Normal or High Normal

Reduced

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)		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

Normal or High Normal





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Test Name			Value	Unit		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		
	RECO	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.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chopra MD (Pathology & Microbiole Chairman & Consultant Patl		Dr. Yugam MD (CEO & Consultant	(Pathology)			
NAME	: Mrs. SHIVANI MODGIL						
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RF	EPORTING DATE	: 08/Mar/2025 02:05PM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	CANTT					
Test Name	Valu	le	Unit	Biological Reference interval			
	IMMINOD	лтилт	OGY/SEROLOGY				
			LOBIN IgE				
IMMUNOCI ODIN E			IU/mL	0.00 - 100.00			
INTERPRETATION: COMMENTS: 1.IgE antibodies medi- exposure to allergens. 2.Total IgE is represen group amongst them. 3.Total IgE determinat existence of atopy and 4.Antigen-specific IgE i available for in vitro di 5.In adults, Total IgE va different allergen or of 6.Specific IgE results o 7.The probability of fin allergens to which the 8.A normal level of IgE allergens and limited e INCREASED: 1.Atopic/Non Atopic A 2.Parasitic Infection. 3.IgE Myeloma 4.Allergic bronchopul 5.The rare hyper IgE sy 6.Immunodeficiency S USES:	SCENCE IMMUNOASSAY) ate allergic diseases by sensitizing mast centry its the sum of all the specific IgE, which in ion constitutes a screening method of ato I high values of total IgE are not pathognor is the next step in the in vitro identification of agnostic tests and testing to be selected base alues between 100 to 1000 UI/ml may not co ten the cause for high IgE could be non-atop batined with the different methods vary sin her an increased level of IgE in serum in patient is sensitized. In serum does not eliminate the possibilitiend organ involvement. Illergy monary aspergillosis. Indrome. tates and Autoimmune states	ells and ba turn inclu pic disease monic of a <i>f the respo</i> <i>sed on sym</i> <i>orrelate wi</i> <i>or.</i> <i>i</i> gnificantl <i>a</i> patient ty of aller	asophils to release histar des many groups of spec es, although within range itopy by themselves. onsible allergen. There are optoms, clinical & environ ith allergen specific IgE, w y, hence followup testing with allergic disease var rgic disease; this occurs in	mine and other inflammatory mediators on cific IgE & allergen specific IgE is just one such the values of total IgE do not exclude the the more than 400 characterized known allergens mental details. There the patients may be just sensitized to the be performed using one laboratory only. The directly with the number of different if there is sensitivity to a limited number of			
 Evaluation of children with strong family history of allergies and early clinical signs of disease · Evaluation of children and adults suspected of having allergic respiratory disease to establish the diagnosis and define the allergens To confirm clinical expression of sensitivity to foods in patients with Anaphylactic sensitivity or with Asthma, Angioedema or Cutaneous disease To evaluate sensitivity to insect venom allergens particularly as an aid in defining venom specificity in those cases in which skin tests are equivocal To confirm the presence of IgE antibodies to certain occupational allergens *** End Of Report *** 							
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)	DR.YUGAM CONSULTA	opra				

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