



Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		Pathology)
NAME : Mrs. SITA DEVI			
AGE/ GENDER : 44 YRS/FEMALE	1	PATIENT ID	: 1560036
COLLECTED BY :	J	REG. NO./LAB NO.	: 012407250011
REFERRED BY]	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO. : 01513766	(COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE. : KOS DIAGNOSTIC LAB]	REPORTING DATE	: 25/Jul/2024 09:58AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SWAS	STHYA WEL	LNESS PANEL: 1.4	
CO	MPI FTF BI O	OD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	12.4	gm/dL	12.0 - 16.0
by CALORIMETRIC			
RED BLOOD CELL (RBC) COUNT by hydro dynamic focusing, electrical impedence	4.37	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV)	39.1	%	37.0 - 50.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)	89.5	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	07.0	IL I	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	28.4	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	31.7 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		-	
RED CELL DISTRIBUTION WIDTH (RDW-CV) by calculated by automated hematology analyzer	16.4 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	54.7	fL	35.0 - 56.0
MENTZERS INDEX	20.48	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED			IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	33.62	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED			65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6970	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER 8	NIL &		0.00 - 20.00
MICROSCOPY NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY DIFFERENTIAL LEUCOCYTE COUNT (DLC)	NIL &	%	< 10 %



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

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



Page 1 of 19





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SITA DEVI **AGE/ GENDER** : 44 YRS/FEMALE **PATIENT ID** :1560036 **COLLECTED BY** :012407250011 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 25/Jul/2024 09:11 AM **BARCODE NO.** :01513766 **COLLECTION DATE** : 25/Jul/2024 09:13AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 25/Jul/2024 09:58AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** % 50 - 70 46^L by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 46^H % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 3 % EOSINOPHILS 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3206 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 3206 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 209 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 348 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 245000 /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) 11 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 94000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 38.4 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.8 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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









	Dr. Vinay ChopraDr. YugamMD (Pathology & Microbiology)MDChairman & Consultant PathologistCEO & Consultant			(Pathology)
NAME	: Mrs. SITA DEVI			
AGE/ GENDER	: 44 YRS/FEMALE	PATI	ENT ID	: 1560036
COLLECTED BY	:	REG.	NO./LAB NO.	: 012407250011
REFERRED BY	:	REGI	STRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	:01513766	COLL	ECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Jul/2024 12:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM		8.3 ^H	%	4.0 - 6.4
• •	NANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE	191.51 ^H	mg/dL	60.00 - 140.00
	MANCE LIQUID CHROMATOGRAPHY)			
by HPLC (HIGH PERFORI		ETES ASSOCIATION (ADA):		
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE	AS PER AMERICAN DIABI		HEMOGLOGIB (HBAIC) ii	n %
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE Non diab	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years		HEMOGLOGIB (HBAIC) in <5.7	n %
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE Non diab At F	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)		<5.7 5.7 – 6.4	n %
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE Non diab At F	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years	GLYCOSYLATED	<5.7 5.7 – 6.4 >= 6.5	n %
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE Non diab At F	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED	<5.7 5.7 – 6.4 >= 6.5 je > 19 Years	
by HPLC (HIGH PERFORI NTERPRETATION: RE Non diab At F Dia	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	GLYCOSYLATED Ag Goals of Therapy:	<5.7 5.7 - 6.4 >= 6.5 ige > 19 Years	
by HPLC (HIGH PERFORI NTERPRETATION: RE Non diab At F Dia	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED Ag Goals of Therapy: Actions Suggested:	<5.7 5.7 - 6.4 >= 6.5 19 Years < 7.0 >8.0	
by HPLC (HIGH PERFORI NTERPRETATION: RE Non diab At F Dia	AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	GLYCOSYLATED Ag Goals of Therapy: Actions Suggested:	<5.7 5.7 - 6.4 >= 6.5 ige > 19 Years	

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.





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY & MICROBIOLOGY) 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

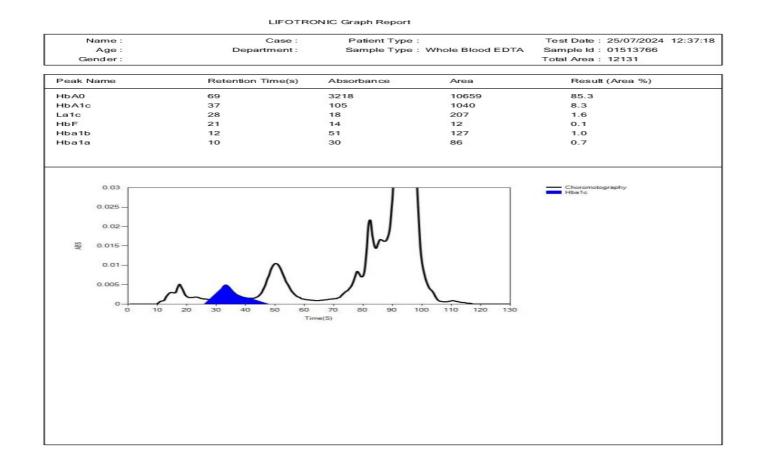
KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	: 012407250011
REFERRED BY	:	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	:01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 12:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
Test Name		Value Unit	Biological Reference interval





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







	MD (Pathology & Chairman & Con	sultant Pathologist	MD (Pat CEO & Consultant Pat		
NAME	: Mrs. SITA DEVI				
AGE/ GENDER	: 44 YRS/FEMALE	PATI	ENT ID :	1560036	
COLLECTED BY	:	REG.	NO./LAB NO. :	012407250011	
REFERRED BY	:	REGI	STRATION DATE :	25/Jul/2024 09:11 AM	
BARCODE NO.	: 01513766	COLI	ECTION DATE :	25/Jul/2024 09:13AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE :	25/Jul/2024 10:35AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inte	rval
	ERYTH	IROCYTE SEDIMEN ⁻	TATION RATE (ESR)		
	MENTATION RATE (ESR)	24 ^H	mm/1st hr	0 - 20	
	RGREN AUTOMATED METHOD				

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as devicen, methylicity and contracentives.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Pathology & Chairman & Con	k Microbiology) Isultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
NAME	: Mrs. SITA DEVI			
AGE/ GENDER	: 44 YRS/FEMALE	PATI	ENT ID	: 1560036
COLLECTED BY	:	REG.	NO./LAB NO.	: 012407250011
REFERRED BY	:	REGI	STRATION DATE	: 25/Jul/2024 09:11 AM
DADCODE NO	:01513766	COLL	ECTION DATE	: 25/Jul/2024 09:13AM
BARCODE NO.				
	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 25/Jul/2024 01:34PM
CLIENT CODE.			ORTING DATE	: 25/Jul/2024 01:34PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 25/Jul/2024 01:34PM Biological Reference interval
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval
BARCODE NO. CLIENT CODE. CLIENT ADDRESS Test Name	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit /BIOCHEMISTR	Biological Reference interval



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



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. Such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





NAME	: Mrs. SITA DEVI			
AGE/ GENDER	: 44 YRS/FEMALE	PA	ATIENT ID	: 1560036
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012407250011
REFERRED BY	:	RI	EGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	:01513766	CC	DLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 25/Jul/2024 02:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		GLUCOSE POST	PRANDIAL (PP)	
	NDIAL (PP): PLASMA E - PEROXIDASE (GOD-POD)	140.73 ^H	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0
INTERPRETATION				

<u>INTERPRETATION</u>

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A post-prandial glucose level between 140 - 200 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 post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level of above 200 mg/dl is necess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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









NAME : Mrs. SITA D AGE/ GENDER : 44 YRS/FEM COLLECTED BY : REFERRED BY : BARCODE NO. : 01513766 CLIENT CODE. : KOS DIAGNO CLIENT ADDRESS : 6349/1, NIC Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (A HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION	ALE DSTIC LAB PHOLSON ROAD, AMBALA CANT Value LIPID PI 134.58 178.28 ^H	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE T Unit COFILE : BASIC mg/dL mg/dL	: 1560036 : 012407250011 : 25/Jul/2024 09:11 AM : 25/Jul/2024 09:13AM : 25/Jul/2024 11:31AM Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240. OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
REFERRED BY : BARCODE NO. : 01513766 CLIENT CODE. : KOS DIAGNO CLIENT ADDRESS : 6349/1, NIC Test Name : CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM	HOLSON ROAD, AMBALA CANT Value LIPID PI 134.58 178.28 ^H	REGISTRATION DATE COLLECTION DATE REPORTING DATE T Unit ROFILE : BASIC mg/dL	: 25/Jul/2024 09:11 AM : 25/Jul/2024 09:13AM : 25/Jul/2024 11:31AM Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240. OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
REFERRED BY : BARCODE NO. : BARCODE NO. : CLIENT CODE. : KOS DIAGNO CLIENT ADDRESS : GARON : Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM	HOLSON ROAD, AMBALA CANT Value LIPID PI 134.58 178.28 ^H	COLLECTION DATE REPORTING DATE T Unit COFILE : BASIC mg/dL	: 25/Jul/2024 09:11 AM : 25/Jul/2024 09:13AM : 25/Jul/2024 11:31AM Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240. OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
CLIENT CODE. : KOS DIAGNO CLIENT ADDRESS : 6349/1, NIC Test Name	HOLSON ROAD, AMBALA CANT Value LIPID PI 134.58 178.28 ^H	REPORTING DATE T Unit COFILE : BASIC mg/dL	: 25/Jul/2024 11:31AM Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240. OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
CLIENT ADDRESS : 6349/1, NIC Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (A HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION	HOLSON ROAD, AMBALA CANT Value LIPID PI 134.58 178.28 ^H	T Unit ROFILE : BASIC mg/dL	Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.4 HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.4
Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION	Value LIPID PI 134.58 178.28 ^H	Unit ROFILE : BASIC mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION	LIPID PI 134.58 178.28^H	ROFILE : BASIC mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUE by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM	134.58 178.28^H	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM	178.28 ^H		BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.
by GLYCEROL PHOSPHATE OXIDASE (I HDL CHOLESTEROL (DIRECT): SERUE by SELECTIVE INHIBITION	<i>ENZYMATIC)</i> 178.28 ^H	mg/dL	BORDERLINE HIGH: 150.0 - 199.
by SELECTIVE INHIBITION			VERY HIGH: > OR = 500.0
	M 28.9 ^L	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
	70.02 RY	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMET	105.68 TRY	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM	35.66	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPHOTOMET TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMET	447.44	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMET	4.66 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by calculated, spectrophotomet	2.42 RY	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

5 DR.VINAY CHOPRA

DK.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, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com

Page 8 of 19





	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SITA DEVI			
AGE/ GENDER	: 44 YRS/FEMALE	PATIE	INT ID	: 1560036
COLLECTED BY	:	REG. N	IO./LAB NO.	: 012407250011
REFERRED BY	:	REGIS	TRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	:01513766	COLLE	ECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		6.17 ^H	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



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









Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SITA DEVI AGE/ GENDER : 44 YRS/FEMALE **PATIENT ID** :1560036 **COLLECTED BY** :012407250011 REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : 25/Jul/2024 09:11 AM : **BARCODE NO.** :01513766 **COLLECTION DATE** : 25/Jul/2024 09:13AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 25/Jul/2024 11:31AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval**

	14.44		Liorogical tierer enter tai
LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.17	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.28	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	25.16	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	29.16	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.86	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	88.5	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	29.4	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.92	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.38	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	3.54 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	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)





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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	:012407250011
REFERRED BY	:	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	: 01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
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).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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







EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

Unit

NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	: 012407250011
REFERRED BY	:	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	: 01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Value

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

	Value	onne	biological Reference interval
K	DNEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM	17.37	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.73	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	8.12	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	11.12	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	23.79	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.75	mg/dL	2.50 - 6.80
CALCIUM: SERUM by Arsenazo III, spectrophotometry	8.54	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	3.63	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	140.5	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.13	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	105.38	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	103.9		

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.



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

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



Biological Reference interval

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com

Test Name





			am Chopra 1D (Pathology) ant Pathologist
NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	:012407250011
REFERRED BY		REGISTRATION DATE	E : 25/Jul/2024 09:11 AM
BARCODE NO.	: 01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD		. 20/Jul/ 2024 11.51/10
CLIENT ADDRESS	. 0349/ 1, MCHOLSON KOAL	D, AMDALA CANT I	
Test Name		Value Unit	Biological Reference interval
DECREASED RATIO (< 1. Acute tubular necr		y more than creatinine) (e.g. obstructive urc e.	patity).
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in	IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio).	ffuses out of extracellular fluid). osent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method	ologies,resulting in normal ratio when dehydra
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the ESTIMATED GLOMERI	IO:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). rapy (interferes with creatinine JLAR FILTERATION RATE:	ffuses out of extracellular fluid). osent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method.	ologies,resulting in normal ratio when dehydra
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera ESTIMATED GLOMERI CKD STAGE	IO:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION	ffuses out of extracellular fluid). psent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method measurement). GFR (mL/min/1.73m2)	ologies,resulting in normal ratio when dehydra
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the ESTIMATED GLOMERI	IO:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur	ffuses out of extracellular fluid). psent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method measurement). I GFR (mL/min/1.73m2) nction >90	ologies,resulting in normal ratio when dehydra
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2	IO:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. furea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage v normal or high C	ffuses out of extracellular fluid). osent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method. e measurement). N GFR (mL/min/1.73m2) nction >90 with >90 GFR A	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria
CREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Cother 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 in CED STAGE STIMATED GLOMERI CKD STAGE G1	IO:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har IO:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage v	ffuses out of extracellular fluid). psent in blood). rmone) due to tubular secretion of urea. VINE: creatine to creatinine). increase in creatinine with certain method. measurement). N GFR (mL/min/1.73m2) nction >90 with >90 GFR 60 -89	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria Presence of Protein ,

Moderate decrease in GFR				
Severe decrease in GFR				
Kidney failure				

G3b

G4

G5

Г

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

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

30-59

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	: 012407250011
REFERRED BY	:	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	: 01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	
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





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







	Dr. Vinay Cho MD (Pathology & I Chairman & Const			
NAME	: Mrs. SITA DEVI			
AGE/ GENDER	: 44 YRS/FEMALE	PAT	ENT ID :	1560036
COLLECTED BY :		REG.	NO./LAB NO. :	012407250011
REFERRED BY	:	REG	STRATION DATE :	25/Jul/2024 09:11 AM
BARCODE NO.	:01513766	COLL	LECTION DATE :	25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE :	25/Jul/2024 12:43PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD,		MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM		36 ^L	μg/dL	50.0 - 170.0
by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	372.76 ^H	μg/dL	150.0 - 336.0
:SERUM		572.70	P6/ 4-	
by FERROZINE, SPEC		100.7/		000 100
TOTAL IRON BINDIN SERUM	G CAPACITY (TIBC)	408.76	μg/dL	230 - 430
by SPECTROPHOTOM	IETERY			
%TRANSFERRIN SATURATION: SERUM		8.81 ^L	%	15.0 - 50.0
by CALCULATED, SPECTROPHOTOMETERY (FERENE)		290.22	ma/dl	200.0 250.0
TRANSFERRIN: SERU by SPECTROPHOTOM		290.22	mg/dL	200.0 - 350.0
INTERPRETATION:-			-	
VARIAB	LES ANEMIA OF CHR	ONIC DISEASE IRC	N DEFICIENCY ANEMIA	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	
IDON.				

IRON:

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 the deficiency anemia is the deficiency anemia in the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia in the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency and the deficiency anemin and the deficiency and the deficiency and the deficiency an

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.



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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)			
NAME	: Mrs. SITA DEVI				
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1560036	
COLLECTED BY	:		REG. NO./LAB NO.	: 012407250011	
REFERRED BY	:		REGISTRATION DATE	: 25/Jul/2024 09:11 AM	
BARCODE NO.	:01513766		COLLECTION DATE	: 25/Jul/2024 09:13AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 25/Jul/2024 11:31AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
		HYROID FUN	ICTION TEST: TOTAL		
TRIIODOTHYRONINI	E (T3): SERUM	0.758	ng/mL	0.35 - 1.93	
THYROXINE (T4): SE	IESCENT MICROPARTICLE IMMUNOA RUM IESCENT MICROPARTICLE IMMUNOA	8.94	μgm/dL	4.87 - 12.60	
	ING HORMONE (TSH): SERUM	4.588 SSAY)	μIU/mL	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	measured serum TSH concentrations.TS	H stimulates the p	roduction and secretion of the me	m. The variation is of the order of 50%.Hence time of a etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	

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 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	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





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





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. SITA DEVI		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1560036
COLLECTED BY	:	REG. NO./LAB NO.	: 012407250011
REFERRED BY	:	REGISTRATION DATE	: 25/Jul/2024 09:11 AM
BARCODE NO.	: 01513766	COLLECTION DATE	: 25/Jul/2024 09:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 25/Jul/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	

Test Name			Value	Unit	t	Biological Reference interva
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	
	RECO	VIMENDATIONS OF TSH LE	VELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 – 2.50			
2nd Trimester		0.20 - 3.00 0.30 - 4.10				
3rd Trimester						

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





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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay Ch MD (Pathology & Chairman & Cons			m Chopra D (Pathology) nt Pathologist	
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SITA DEVI : 44 YRS/FEMALE : : : 01513766 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, 4	REGISTR COLLECT REPORT	TID /LAB NO. ATION DATE TON DATE ING DATE	: 1560036 : 012407250011 : 25/Jul/2024 09:11 AM : 25/Jul/2024 09:13AM : 25/Jul/2024 10:01AM	
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO OUTINE & MICROSCOF		TION	
COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY) TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 PALE YELLOW CLEAR 1.02	ml	PALE YELLOW CLEAR 1.002 - 1.030	
REACTION by DIP STICK/REFLEC PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative <=5.0 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)	
UROBILINOGEN by DIP STICK/REFLEC KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative Negative NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)	

MICROSCOPIC EXAMINATION



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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Di MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & C

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

NAME	: Mrs. SITA DEVI					
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT	' ID	: 1560036		
COLLECTED BY	:	REG. NO.	/LAB NO.	: 012407250011		
REFERRED BY	:	REGISTR	ATION DATE	: 25/Jul/2024 09:11 AM		
BARCODE NO.	:01513766	COLLECTION DATI		: 25/Jul/2024 09:13AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 25/Jul/2024 10:01AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3		
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		0-2	/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 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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



NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT