



50 3001 . 2000 OENT				
	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1600293
COLLECTED BY	:		REG. NO./LAB NO.	: 012409030009
REFERRED BY	:		REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214		COLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 03/Sep/2024 09:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA WE	LLNESS PANEL: 1.5	
	CO	MPLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		13.5	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE	BC) COUNT	4.59	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN	NE (PCV) AUTOMATED HEMATOLOGY ANALYZER	42	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	91.6	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	29.5	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	R HEMOGLOBIN CONC. (MCHC)	32.1	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	13.7	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	46.8	fL	35.0 - 56.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		19.96	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	27.42	RATIO	BETA THALASSEMIA TRAIT:<= 65.
by CALCULATED				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL				
TOTAL LEUCOCYTE C	OUNT (TLC) y by sf cube & microscopy	8140	/cmm	4000 - 11000
NUCLEATED RED BLO	DOD CELLS (nRBCS)	NIL		0.00 - 20.00
	r <i>t hematology analyzer</i> DOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A	UTOMATED HEMATÓLOGY ANALYZER		/0	× 10 /0
DIFFERENTIAL LEUCO	<u> DCYTE COUNT (DLC)</u>			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	70 ^H	%	50 - 70
by FLOW GYTOMETR	I BI SF CODE & WICKUSCOPY			

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





Dr. Vinay Chopra



Dr. Yugam Chopra

	MD (Pathology & M Chairman & Consul	licrobiology)	MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PA	TIENT ID	: 1600293
COLLECTED BY	:	RF	EG. NO./LAB NO.	: 012409030009
REFERRED BY		RF	EGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	: 01516214		OLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 03/Sep/2024 09:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		A ONTING DATE	. 00/ 5cp/ 2024 00.20110
CLIENT ADDRESS	. 0349/1, MCHOLSON KOAD, AN	IDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		21	%	20 - 40
	Y BY SF CUBE & MICROSCOPY	1	0/	
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES		8	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	70	2 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOC	<u>YTES (WBC) COUNT</u>			
ABSOLUTE NEUTRO		5698	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY	1700		000 1000
	CYTE COUNT RY BY SF CUBE & MICROSCOPY	1709	/cmm	800 - 4900
ABSOLUTE EOSINOF		81	/cmm	40 - 440
	RY BY SF CUBE & MICROSCOPY	01	/ driffi	
ABSOLUTE MONOC		651	/cmm	80 - 880
-	RY BY SF CUBE & MICROSCOPY		,	0.440
ABSOLUTE BASOPH	IL COUNT RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	HER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (P		256000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE	230000	/ cmill	130000 - 430000
PLATELETCRIT (PCT)		0.27	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET VC		10	fL	6.50 - 12.0
PLATELET LARGE CE	FOCUSING, ELECTRICAL IMPEDENCE	75000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE	75000	/umm	30000 - 70000
PLATELET LARGE CE	ELL RATIO (P-LCR)	29.4	%	11.0 - 45.0
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
	TION WIDTH (PDW)	16.3	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD			
NOTE. TEST CONDU	JUIED ON EDIA WHOLE DLOUD			



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 & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
JAME	: Mrs. SUMATI SACHDEV			
GE/ GENDER	: 71 YRS/FEMALE	PATIE	NT ID	: 1600293
COLLECTED BY	:	REG. N	0./LAB NO.	: 012409030009
REFERRED BY	:	REGIS	FRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214		CTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 03/Sep/2024 03:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 00/ bep/ 202 1 00.201 M
Test Name		Value	Unit	Biological Reference interval
	GLYC MOGLOBIN (HbA1c):	COSYLATED HAEMOO 6.6 ^H	GLOBIN (HBA1C) %	4.0 - 6.4
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY)	6.6 ^H 142.72 ^H	. ,	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAG by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	6.6 ^H 142.72 ^H	% mg/dL	
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I REFERENCE GROUP	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (J	% mg/dL ADA): ATED HEMOGLOGIB	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (J	% mg/dL ADA): ATED HEMOGLOGIB <5.7	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (J	% mg/dL ADA): <u>ATED HEMOGLOGIB</u> < <u>5.7</u> 5.7 - 6.4	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (J	% mg/dL ADA): <u>ATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia A	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (GLYCOSYL	% mg/dL ADA): <u>ATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5 Age > 19 Years	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia A D	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (GLYCOSYL	% mg/dL ADA): <u>ATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5 <u>Age > 19 Years</u> apy:	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.6 ^H 142.72 ^H DIABETES ASSOCIATION (GLYCOSYL	% mg/dL ADA): <u>ATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5 <u>Age > 19 Years</u> apy:	60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Ch MD (Pathology & Chairman & Con	k Microbiology)		(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1600293
COLLECTED BY	:		REG. NO./LAB NO.	: 012409030009
REFERRED BY	:		REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214		COLLECTION DATE	: 03/Sep/2024 09:30AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 03/Sep/2024 09:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDI	IMENTATION RATE (ES	R)
	MENTATION RATE (ESR)	12	mm/1st h	r 0-20
(polycythaemia), sig as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR dog 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dex	en with conditions that inhibit the nificantly high white blood cell co le cell anaemia) also lower the E ve protein (C-RP) are both marker es not change as rapidly as does (I by as many other factors as is ES ted, it is typically a result of two t ave a higher ESR, and menstruatic	ount (leucocytos SR. CRP, either at the R, making it a be types of proteins on and pregnancy	is), and some protein abno n. e start of inflammation or as itter marker of inflammatior , globulins or fibrinogen. y can cause temporary eleva	1.
	an		Chopra	

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

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

•

57

Ľ7

Page 4 of 22





		h opra & Microbiology) nsultant Pathologist		(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	l	PATIENT ID	: 1600293
COLLECTED BY	:]	REG. NO./LAB NO.	: 012409030009
REFERRED BY	:]	REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214		COLLECTION DATE	:03/Sep/202409:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 03/Sep/2024 09:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	PR	OTHROMBIN TI	ME STUDIES (PT/INR)	
PT TEST (PATIENT) by photo optical (11.7	SECS	11.5 - 14.5
рурното ортісації PT (CONTROL) by рното ортісації		12	SECS	
ISI by PHOTO OPTICAL (CLOT DETECTION	1.1		
INTERNATIONAL NO		0.97		0.80 - 1.20
by PHOTO OPTICAL (

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR ORAL ANTI-COAGULANT THERAPY (INR)				
INDICATION		INTERNATIO	NAL NORMALIZED RATIC (INR)	
Treatment of venous thrombosis				
Treatment of pulmonary embolism				
Prevention of systemic embolism in tissue heart valves				
Valvular heart disease	Low Intensity		2.0 - 3.0	
Acute myocardial infarction				
Atrial fibrillation				
Bileaflet mechanical valve in aortic position				
Recurrent embolism				
Mechanical heart valve	High Intensity		2.5 - 3.5	
Antiphospholipid antibodies ⁺				
COMMENTS:				





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 Chop MD (Pathology & M Chairman & Consul	icrobiology) MD	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. SUMATI SACHDEV		
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1600293
COLLECTED BY	:	REG. NO./LAB NO.	: 012409030009
REFERRED BY	:	REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Sep/2024 09:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
Test Name		Value Unit	Biological Reference interval

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are : 1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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







		Chopra & Microbiology) onsultant Patholog		(Pathology)	
NAME	: Mrs. SUMATI SACHDEV				
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1600293	
COLLECTED BY	:		REG. NO./LAB NO.	: 012409030009	
REFERRED BY			REGISTRATION DATE	: 03/Sep/2024 09:07 AM	
BARCODE NO.			COLLECTION DATE : 03/Sep/202	: 03/Sep/2024 09:30AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 03/Sep/2024 09:34AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	
	ΑCTIVAT	ED PARTIAL TH	IROMBOPLASTIN TIME	(APTT)	
APTT (PATIENT VALU	,	32	SECS	28.6 - 38.2	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

INTERPRETATION:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

The activated partial thromboplastin time (aPTT or APTT) is a performance indicator measuring the efficacy of both the **intrinsic** (now referred to as the contact activation pathway) and the common coagulation pathways. Apart from detecting abnormalities in blood clotting, it is also used to monitor the treatment effects with heparin, a major anticoagulant. It is used in conjunction with the prothrombin time (PT) which measures the extrinsic pathway.

COMMON CAUSES OF PROLONGED APTT :-

- 1. Disseminated intravascular coagulation.
- 2. Liver disease.
- 3. Massive transfusion with stored blood.
- 4. Heparin administration or contamination.
- 5. A circulating Anticogulant.
- 6. Deficiency of a coagulation Factor other than factor 7.





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
 www.koshealthcare.com







	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATIE	ENT ID	: 1600293
COLLECTED BY	:	REG. N	NO./LAB NO.	: 012409030009
REFERRED BY	:	REGIS	TRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLI	ECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 03/Sep/2024 10:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINICA	AL CHEMISTRY/	BIOCHEMISTR	Y
		GLUCOSE FAST	'ING (F)	
GLUCOSE FASTING (by GLUCOSE OXIDAS	F): PLASMA se - peroxidase (god-pod)	116.57 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	ion of 75 gms of glucose) is recomme	sidered normal. dl is considered as gl ended for all such pat ighly suggestive of di	tients. abetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for all atory 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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Page 8 of 22





	Dr. Vinay Ch MD (Pathology & Chairman & Cor	nopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATI	ENT ID	: 1600293
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012409030009
REFERRED BY	:	REGIS	STRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLL	ECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTA	L: SERUM	188.86	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			3	BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER		119.74	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)				BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (54.36	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBIT	ION			BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S	SERUM	110.55	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY		Ū	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLESTE		134.5 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPI	ECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL		23.95	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERU		497.46	mg/dL	350.00 - 700.00
by CALCULATED, SPE		477.40	Thg/ UL	330.00 - 700.00
CHOLESTEROL/HDL		3.47	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	UIRUPHUIUMEIKY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
LDL/HDL RATIO: SEF		2.03	RATIO	LOW RISK: 0.50 - 3.0
by CALCULATED, SPE	CTROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0
				HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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



Page 9 of 22





		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATIE	NT ID	: 1600293
COLLECTED BY	:	REG. N	O./LAB NO.	: 012409030009
REFERRED BY	:	REGIS	FRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLE	CTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.2 ^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





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. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mrs. SUMATI SACHDEV		
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1600293
COLLECTED BY	:	REG. NO./LAB NO.	: 012409030009
REFERRED BY	:	REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	: 01516214	COLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

			9
LIVE	R FUNCTION TEST (0	COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.56	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.38	mg/dL	0.10 - 1.00
GOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	28.5	U/L	7.00 - 45.00
GPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	36.2	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.79	RATIO	0.00 - 46.00
LKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL ROPANOL	54.68	U/L	40.0 - 130.0
AMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	16.86	U/L	0.00 - 55.0
OTAL PROTEINS: SERUM by biuret, spectrophotometry	6.43	gm/dL	6.20 - 8.00
LBUMIN: SERUM by bromocresol green	3.58	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.85	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.26	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





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 Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam (MD (P & Consultant Pa	athology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT II)	: 1600293
COLLECTED BY	:	REG. NO./L	AB NO.	: 012409030009
REFERRED BY	:	REGISTRAT	TION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLECTIO	N DATE	:03/Sep/202409:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	G DATE	:03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>1	.3 (Slightly Increa	ased)

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







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SUMATI SACHDEV **AGE/ GENDER** : 71 YRS/FEMALE **PATIENT ID** :1600293 **COLLECTED BY** :012409030009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :03/Sep/2024 09:07 AM **BARCODE NO.** :01516214 **COLLECTION DATE** :03/Sep/2024 09:30AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :03/Sep/2024 10:20AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval KIDNEY FUNCTION TEST (COMPLETE) UREA: SERUM** 30.36 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE: SERUM** 0.99 mg/dL 0.40 - 1.20 by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM 14.19 mg/dL 7.0 - 25.0 by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE RATIO 10.0 - 20.0 14.33 RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY RATIO **UREA/CREATININE RATIO: SERUM** 30.67 by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM 5.75 2.50 - 6.80 mg/dL by URICASE - OXIDASE PEROXIDASE 8.50 - 10.60 CALCIUM: SERUM 9.6 mg/dL by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM 2.62 mg/dL 2.30 - 4.70 by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY **ELECTROLYTES** SODIUM: SERUM 142.1 mmol/L 135.0 - 150.0 by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM 4.31 mmol/L 3.50 - 5.00 by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM 106.57 mmol/L 90.0 - 110.0 by ISE (ION SELECTIVE ELECTRODE) **ESTIMATED GLOMERULAR FILTERATION RATE** ESTIMATED GLOMERULAR FILTERATION RATE 61 (eGFR): SERUM by CALCULATED

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)

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





		Image: Application of the second stateDr. Yugam Chopraathology & Microbiology)MD (Pathology)nan & Consultant PathologistCEO & Consultant Pathologist		
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1600293	
COLLECTED BY		REG. NO./LAB N		
	:			
REFERRED BY	:	REGISTRATION	1	
BARCODE NO.	: 01516214	COLLECTION DA	TE : 03/Sep/2024 09:	30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	FE : 03/Sep/2024 10:3	20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value U	nit Biologica	l Reference interval
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 (<	nd starvation. e. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE:	in blood). ne) due to tubular secretion of uro	2a.	
 Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin the 	sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney functio Kidney damage with normal or high GFR	tine to creatinine). ease in creatinine with certain me asurement). GFR (mL/min/1.73m2) n >90 >90	ethodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria Presence of Protein , Albumin or cast in urine	al ratio when dehydratic
2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney functio Kidney damage with normal or high GFR Mild decrease in GFR	tine to creatinine). ease in creatinine with certain me asurement). GFR (mL/min/1.73m2) n >90 >90 60 -89	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	nal ratio when dehydratic
2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2	eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney functio Kidney damage with normal or high GFR	tine to creatinine). ease in creatinine with certain measurement). GFR (mL/min/1.73m2) n >90 >90 60 -89 FR 30-59	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	nal ratio when dehydratio

G5

Г

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

Kidney failure

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

<15









	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. SUMATI SACHDEV		
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1600293
COLLECTED BY	:	REG. NO./LAB NO.	: 012409030009
REFERRED BY	:	REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	LA CANTT	
Test Name	N	/alue 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 Ch MD (Pathology 8 Chairman & Con		t CEO	Dr. Yugam MD (F D & Consultant P	Pathology)
NAME	: Mrs. SUMAT	'I SACHDEV				
AGE/ GENDER	: 71 YRS/FEM	ALE		PATIENT I	D	: 1600293
COLLECTED BY	:			REG. NO./I	AB NO.	: 012409030009
REFERRED BY	:			REGISTRA	FION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214			COLLECTIO		: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTIN		: 03/Sep/2024 10:20AM
CLIENT ADDRESS			AMBALA CANTT		u Dill L	
Test Name			Value		Unit	Biological Reference interval
			IRON	I PROFILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	,	96.2		μg/dL	37.0 - 145.0
UNSATURATED IRON			158.09		μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPEC	TROPHOTOMETER	RY				
TOTAL IRON BINDIN			254.29		μg/dL	230 - 430
SERUM	IETERY					
%TRANSFERRIN SAT by CALCULATED, SPE			37.83		%	15.0 - 50.0
TRANSFERRIN: SERU	JM		180.55 ^L		mg/dL	200.0 - 350.0
INTERPRETATION:-	IEIERI (FERENE)					
VARIAB	BLES	ANEMIA OF CH	RONIC DISEASE	IRON DEF	CIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IF	RON:	Normal t	o Reduced	R	educed	Normal
TOTAL IRON BINDI	NG CAPACITY:	Decr	reased	In	creased	Normal
	ATUDATION	D		D	10 15 0/	N. I

	N	•
IRU	IN	

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. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

Decreased < 12-15 %

Decreased

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

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

Decreased

Normal to Increased

% TRANSFERRIN SATURATION:

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



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

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

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

Normal

Normal or Increased





	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	Р	ATIENT ID	: 1600293
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012409030009
REFERRED BY	:	R	EGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	: 01516214	C	OLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMH	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCR	INOLOGY	
	THY	ROID FUNCT	ION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM iescent microparticle immunoassa)	0.942	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	RUM iescent microparticle immunoassay	8.06	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	1.972	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
TSH levels are subject to a day has influence on the trilodothyronine (T3).Fai		mulates the produ	iction and secretion of the me	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 a	nd/or T3.		
CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (1	
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)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo	·	(Pathology)
NAME	: Mrs. SUMATI SACHDEV		
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1600293
COLLECTED BY	:	REG. NO./LAB NO.	: 012409030009
REFERRED BY	:	REGISTRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLLECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ITT	
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit		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	
	RECON	IMENDATIONS OF TSH LE	VELS DURING PREG	NANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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.



Chairman & Co				(Pathology)	
NAME	: Mrs. SUMATI SACHDEV				
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1600293	
COLLECTED BY	:		REG. NO./LAB NO.	: 012409030009	
REFERRED BY	:		REGISTRATION DATE	: 03/Sep/2024 09:07 AM	
BARCODE NO.	:01516214		COLLECTION DATE	: 03/Sep/2024 09:30AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE : 03/Sep/2024 10:20AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VIT	AMINS		
		VITAMIN D/25 H	YDROXY VITAMIN D3		
VITAMIN D (25-HYDROXY VITAMIN D3): SERU by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		50.1	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
NTERPRETATION:	CIENT:	< 20	r	ıg/mL	
	FICIENT:	21 - 29		ig/mL	
	ED RANGE:	30 - 100 > 100	r	ig/mL	
2.25-OHVitamin D r tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake,	und by a transport protein w primary role in the maintenar ion, skeletal calcium deposit nay lead to failure to mineral	evoir and transport fo hile in circulation. ice of calcium home ion, calcium mobiliza ize newly formed ost se)	orm of Vitamin D and trans ostatis. It promotes calciu ation, mainly regulated by	sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.	





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







NAME	: Mrs. SUMATI SACHDEV			
AGE/ GENDER	: 71 YRS/FEMALE	PATI	ENT ID	: 1600293
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012409030009
REFERRED BY	:	REGIS	TRATION DATE	: 03/Sep/2024 09:07 AM
BARCODE NO.	:01516214	COLL	ECTION DATE	: 03/Sep/2024 09:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 03/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			, , , , , , , , , , , , , , , , , , ,
Test Name VITAMIN B12/COBA	LAMIN: SERUM	Value VITAMIN B12/CO > 2000 ^H		Biological Reference interval
VITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY)	LAMIN: SERUM Nescent microparticle			
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	NESCENT MICROPARTICLE	VITAMIN B12/CO > 2000 ^H	BALAMIN pg/mL	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) INTERPRETATION:- INCREAS	NESCENT MICROPARTICLE SED VITAMIN B12	VITAMIN B12/CO > 2000 ^H	BALAMIN	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) INTERPRETATION:-	NESCENT MICROPARTICLE SED VITAMIN B12 nin C	VITAMIN B12/CO > 2000 ^H	BALAMIN pg/mL	190.0 - 890.0 I B12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	VITAMIN B12/CO > 2000 ^H	BALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0 I B12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO > 2000 ^H 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv	BALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants ion e Harmones	190.0 - 890.0 I B12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO > 2000 ^H 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest	BALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants ion e Harmones is	190.0 - 890.0 I B12

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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 Cho MD (Pathology & Chairman & Cons				
NAME	: Mrs. SUMATI SACHDEV				
AGE/ GENDER	: 71 YRS/FEMALE	PATIEN	T ID	: 1600293	
COLLECTED BY	:	REG. NO)./LAB NO.	: 012409030009	
REFERRED BY	:	REGIST	RATION DATE	: 03/Sep/2024 09:07 AM	
BARCODE NO.	:01516214		TION DATE	: 03/Sep/2024 09:30AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 03/Sep/2024 10:11AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			· · · · · · · · · · · · · · · · · · ·	
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO	DLOGY		
	URINE RO	OUTINE & MICROSCO	PIC EXAMINAT	ION	
PHYSICAL EXAMINA					
QUANTITY RECIEVED		10	ml		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
COLOUR		PALE YELLOW		PALE YELLOW	
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR	
	TANCE SPECTROPHOTOMETRY	10.21		old in	
SPECIFIC GRAVITY		1.02		1.002 - 1.030	
CHEMICAL EXAMINA	TANCE SPECTROPHOTOMETRY				
REACTION		ACIDIC			
	TANCE SPECTROPHOTOMETRY	AGIDIO			
PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
рН		6		5.0 - 7.5	
,	TANCE SPECTROPHOTOMETRY	Negetive			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
NITRITE		Negative		NEGATIVE (-ve)	
•	TANCE SPECTROPHOTOMETRY.		F11/11	0.0.10	
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0	
KETONE BODIES		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
BLOOD		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	x -7			

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, 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







Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. SUMATI SACHDEV				
AGE/ GENDER	: 71 YRS/FEMALE	PATIE	NT ID	: 1600293	
COLLECTED BY	:	REG. N	0./LAB NO.	: 012409030009	
REFERRED BY			TRATION DATE	: 03/Sep/2024 09:07 AM : 03/Sep/2024 09:30AM	
BARCODE NO.			CTION DATE		
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE		:03/Sep/2024 10:11AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	ABSENT	

NEGATIVE (-ve) CRYSTALS 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

ABSENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***





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



ABSENT