



Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)) (Pathology)	
	it rathologis	t CEO & Consultan	t Pathologist	
Irs. HARBANS KAUR				
0 YRS/FEMALE		PATIENT ID	: 178321	19
				3080041
				r/2025 10:56 AM
1526712		COLLECTION DATE	:08/Ma	r/2025 11:08AM
OS DIAGNOSTIC LAB		REPORTING DATE	:08/Ma	r/2025 11:31AM
349/1, NICHOLSON ROAD, AMBA	ALA CANTT			
	Value	Unit		Biological Reference interval
SWASTI	HYA WE	LLNESS PANEL: 1.	5	
		(020)		
	7.6 ^L	gm/dL		12.0 - 16.0
COUNT	1 2	Millions	./cmm	3.50 - 5.00
	4.2	WIIIIOUS		3.30 - 3.00
	26.7 ^L	%		37.0 - 50.0
OLUME (MCV)	63.6 ^L	fL		80.0 - 100.0
	18 ^L	pg		27.0 - 34.0
MATED HEMATOLOGY ANALYZER				
	28.3 ^L	g/ dL		32.0 - 36.0
	19.9 ^H	%		11.00 - 16.00
ON WIDTH (RDW-SD)	47.1	fL		35.0 - 56.0
NATED HEMATOLOGY ANALYZER	15.14	RATIO		BETA THALASSEMIA TRAIT: <
				13.0
				IRON DEFICIENCY ANEMIA: >13.0
	29.98	RATIO		BETA THALASSEMIA TRAIT:<
				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
	6850	/cmm		4000 - 11000
DD CELLS (nRBCS)	NIL			0.00 - 20.00
EMATOLOGY ANALYZER	NIL	%		< 10 %
DD CELLS (nRBCS) %				
	URJESH 1526712 (OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB/ SWASTI COMP BCS) COUNT AND INDICES () COUNT SING, ELECTRICAL IMPEDENCE () COUNT () COU	URJESH 1526712 COS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMBALA CANTT Value Value SWASTHYA WE COMPLETE BL BCS) COUNT AND INDICES 0, COUNT AND INDICES (PCV) 26,7 ^L 4.2 SING, ELECTRICAL IMPEDENCE (PCV) 28,3 ^L 4.2 SING, ELECTRICAL IMPEDENCE (PCV) 28,3 ^L 4.2 29,98 (WBCS) UNT (TLC) 6850 SF CUBE & MICROSCOPY D) CELLS (nRBCS) NIL	URJESH REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE 1526712 COLLECTION DATE 349/1, NICHOLSON ROAD, AMBALA CANTT REPORTING DATE SWASTHVA WELLINESS PANELI: 1. COMPLETE BLOOD COUNT (CBC) SWASTHVA WELLINESS PANELI: 1. COMPLETE BLOOD COUNT (CBC) BCS) COUNT AND INDICES SING, ELECTRICAL IMPEDENCE (PCV) 7.6 ^L gm/dL () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 26.7 ^L % () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 8.3 ^L g/dL () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 8.3 ^L g/dL () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 18.1 Pg () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 19.9 ^H % () COUNT SING, ELECTRICAL IMPEDENCE (PCV) 19.9 ^H % () COUNT MATED HEMATOLOGY ANALYZER (NUDTH (RDW-CV)) 19.9 ^H % () NUIDTH (RDW-CV) 19.9 ^H % () NUIDTH (RDW-CV) 29.98 RATIO (WBCS) VCMT 6850 /cmm () VIT (TLC) 6850 /cmm	URTESH REG. NO./LAB NO. : 01250 REGISTRATION DATE : 08/Ma 1526712 COLLECTION DATE : 08/Ma IS26712 COLLECTION DATE : 08/Ma IS26712 COLLECTION DATE : 08/Ma IS26712 COLLECTION DATE : 08/Ma 349/1, NICHOLSON ROAD, AMBALA CANTT : 08/Ma SWASTFF WELLNESS PAFE: 1.5 COMPTENDICES SOUNT AND INDICES SOUNT AND INDICES SOUNT AND INDICES SOUNT AND INDICES SOUNT ANALYZER 10.00000000000000000000000000000000000

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PAT	IENT ID	: 1783219
COLLECTED BY	: SURJESH	REG.	. NO./LAB NO.	: 012503080041
REFERRED BY	:	REG	ISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	: 01526712	COL	LECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	:08/Mar/202511:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	59	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	32	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
IMMATURE GRANU	JLOCTE (IG) % y by sf cube & microscopy	0	%	0 - 5.0
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
	Y BY SF CUBE & MICROSCOPY	4042	/cmm	2000 - 7500
ABSOLUTE LYMPH	OCYTE COUNT Y by sf cube & microscopy	2192	/cmm	800 - 4900
ABSOLUTE EOSINC		206	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	411	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT Y by sf cube & microscopy	0	/cmm	0 - 110
ABSOLUTE IMMAT	URE GRANULOCYTE COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
PLATELETS AND (THER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT) COCUSING, ELECTRICAL IMPEDENCE	410000	/cmm	150000 - 450000
,	OCUSING, ELECTRICAL IMPEDENCE	0.43 ^H	%	0.10 - 0.36
	OCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
by HYDRO DYNAMIC F	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	134000 ^H	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	32.8	%	11.0 - 45.0

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 Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PAT	IENT ID	: 1783219
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012503080041
REFERRED BY	:	REG	ISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712	COL	LECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 08/Mar/2025 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.1	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED

Г

an

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. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PAT	IENT ID	: 1783219
COLLECTED BY	: SURJESH	REG	NO./LAB NO.	: 012503080041
REFERRED BY		REG	ISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712		LECTION DATE	: 08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 08/Mar/2025 01:12PM
CLIENT CODE.			UNIING DATE	. 00/ Wai / 2023 01.121 W
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	IMBALA CANTI		
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	7.2 ^H	%	4.0 - 6.4
	GE PLASMA GLUCOSE	159.94 ^H	mg/dL	60.00 - 140.00
INTERPRETATION:				
	AS PER AMERICAN	DIABETES ASSOCIATION	I (ADA):	
	REFERENCE GROUP		YLATED HEMOGLOGIB	(HBAIC) in %
Non dia	abetic Adults >= 18 years		<5.7	
	t Risk (Prediabetes)	5.7 - 6.4		
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
Thorseret	is goals for glycomic control	Goals of Th		< 7.0
inerapeut	ic goals for glycemic control	Actions Sug		>8.0
			Age < 19 Years	
		Goal of the		<7.5

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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)

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







GE/ GENDER : 7 DILECTED BY : S GEFERRED BY : IRCODE NO. : O IENT CODE. : H IENT ADDRESS : O Strand : O Strand <th>ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c</th> <th>REG. REGIS COLL REPO MBALA CANTT Value CYTE SEDIMENT 46^H</th> <th>ENT ID NO./LAB NO. STRATION DATE ECTION DATE DRTING DATE Unit TATION RATE (1 mm/1st</th> <th></th>	ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	REG. REGIS COLL REPO MBALA CANTT Value CYTE SEDIMENT 46 ^H	ENT ID NO./LAB NO. STRATION DATE ECTION DATE DRTING DATE Unit TATION RATE (1 mm/1st	
DLLECTED BY : S DEFERRED BY : RCODE NO. : C IENT CODE. : F IENT ADDRESS : C Dest Name : RYTHROCYTE SEDIM :: Part CELL AGGREGATI : TERRET ANON-Specific te mune disease, but doe : An ESR can be affected C-reactive protein	SURJESH 01526712 KOS DIAGNOSTIC LAB 0349/1, NICHOLSON ROAD, AN ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result of	REG. REGIS COLL REPO MBALA CANTT Value CYTE SEDIMENT 46 ^H	NO./LAB NO. STRATION DATE ECTION DATE DRTING DATE Unit	: 012503080041 : 08/Mar/2025 10:56 AM : 08/Mar/2025 11:08AM : 08/Mar/2025 12:49PM Biological Reference interval ESR)
EFERRED BY : IRCODE NO. : O IENT CODE. : H IENT ADDRESS : O est Name : RYTHROCYTE SEDIM : est Name : EST Name : EST Name : EST is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein :	01526712 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AM ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result of	REGIS COLL REPO MBALA CANTT Value CYTE SEDIMENT 46 ^H	STRATION DATE ECTION DATE DRTING DATE Unit	: 08/Mar/2025 10:56 AM : 08/Mar/2025 11:08AM : 08/Mar/2025 12:49PM Biological Reference interval ESR)
IRCODE NO. : 0 IENT CODE. : F IENT ADDRESS : 6 est Name : 6 est Name : 7 EST Secondary : 7 ESR is a non-specific te mune disease, but doe affected C-reactive protein : 7	KOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAD, AM ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	COLL REPO MBALA CANTT Value CYTE SEDIMENT 46 ^H	ECTION DATE DRTING DATE Unit FATION RATE (1	: 08/Mar/2025 11:08AM : 08/Mar/2025 12:49PM Biological Reference interval ESR)
IENT CODE. : H IENT ADDRESS : 6 est Name CYTHROCYTE SEDIM by RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	KOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAD, AM ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	REPO MBALA CANTT Value CYTE SEDIMENT 46 ^H	DRTING DATE Unit FATION RATE (1	: 08/Mar/2025 12:49PM Biological Reference interval ESR)
IENT ADDRESS : 6 est Name CYTHROCYTE SEDIM by RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	5349/1, NICHOLSON ROAD, AN ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	MBALA CANTT Value OCYTE SEDIMENT 46 ^H	Unit FATION RATE (1	Biological Reference interval ESR)
est Name CYTHROCYTE SEDIM by RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	ERYTHRO ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	Value OCYTE SEDIMENT 46 ^H	FATION RATE (1	ESR)
CYTHROCYTE SEDIM by RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	OCYTE SEDIMENT 46 ^H	FATION RATE (1	ESR)
y RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	ENTATION RATE (ESR) ON BY CAPILLARY PHOTOMETRY est because an elevated result c	46 ^H		
y RED CELL AGGREGATI TERPRETATION: ESR is a non-specific te mune disease, but doe An ESR can be affected C-reactive protein	ON BY CAPILLARY PHOTOMETRY		mm/1st	hr 0 - 20
stemic lupus erythema DNDITION WITH LOW ES ow ESR can be seen wi olycythaemia), significa sickle cells in sickle ce DTE: ESR and C - reactive pro Generally, ESR does no CRP is not affected by a If the ESR is elevated, i Women tend to have a	I by other conditions besides in ised to monitor disease activity tosus SR ith conditions that inhibit the n antly high white blood cell cour II anaemia) also lower the ESR otein (C-RP) are both markers o bt change as rapidly as does CRF as many other factors as is ESR, it is typically a result of two typ higher ESR, and menstruation a methyldopa, oral contraceptiv	er exactly where the in iflammation. For this y and response to the normal sedimentation nt (leucocytosis), and R. of inflammation. P, either at the start of making it a better ma bes of proteins, globul and pregnancy can ca	nflammation is in the reason, the ESR is typ rapy in both of the a of red blood cells, su d some protein abno of inflammation or as arker of inflammatior lins or fibrinogen. suse temporary eleva	n.





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 5 of 20





		& Microbiology) Insultant Pathologist		(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	1	PATIENT ID	: 1783219
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	: 012503080041
REFERRED BY	:]	REGISTRATION DATE	:08/Mar/2025 10:56 AM
BARCODE NO.	: 01526712		COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	:08/Mar/202501:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLINI	CAL CHEMIST	TRY/BIOCHEMIST	
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING	F (F): PLASMA E - PEROXIDASE (GOD-POD)	123.88 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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.



	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PA	FIENT ID	: 1783219
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012503080041
REFERRED BY	:	REG	GISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	: 01526712	COL	LECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TO	TAL: SERUM	179.15	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: S		171.37 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
		50.40		VERY HIGH: $> OR = 500.0$
by SELECTIVE INHIBIT	L (DIRECT): SERUM	53.42	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
LDL CHOLESTEROI	· CEDIM	91.46	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE		91.40	ing/uL	ABOVE OPTIMAL: < 100.0 - 129.
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLEST		125.73	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CIROPHOIOMEIRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER	DL: SERUM	34.27	mg/dL	0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
FOTAL LIPIDS: SER by calculated, spe		529.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	3.35	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	GIROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0



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 & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PA	ATIENT ID	: 1783219
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012503080041
REFERRED BY	:	RI	EGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712	CO	DLLECTION DATE	: 08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.71	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.21	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.

3. 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. 4. 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 Chop MD (Pathology & Mic Chairman & Consulta	crobiology)		Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE		PATIENT ID	: 1783219
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503080041
REFERRED BY	:		REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712		COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:08/Mar/202501:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIVER		N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.43	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.09	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	15.57	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	16.45	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.95	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	90.26	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	17.14	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.42	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.96	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		2.46	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.61	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

INCREASED:

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





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



INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F	iology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. HARBANS KAUR		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1783219
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503080041
REFERRED BY	:	REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712	COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	v	alue Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) UR.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 & N Chairman & Consu	1icrobiology)	Dr. Yugam MD (CEO & Consultant	Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE	PATI	ENT ID	: 1783219
COLLECTED BY	: SURJESH	REG. I	NO./LAB NO.	: 012503080041
REFERRED BY	:	REGIS	TRATION DATE	:08/Mar/2025 10:56 AM
BARCODE NO.	:01526712	COLLI	ECTION DATE	: 08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 08/Mar/2025 02:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	20.72	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.84	mg/dL	0.40 - 1.20
-	OGEN (BUN): SERUM	9.68	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by Calculated, spe	COGEN (BUN)/CREATININE	11.52	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	24.67	RATIO	
URIC ACID: SERUM	[3.32	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	10.19	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe	ERUM DATE, SPECTROPHOTOMETRY	4.02	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV	· · · · · · · · · · · · · · · · · · ·	139.9	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV		4.72	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV		104.93	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	74.7		

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist				m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. HARBANS	KAUR			
AGE/ GENDER	: 70 YRS/FEMALI	Ξ	PATIE	NT ID	: 1783219
COLLECTED BY	: SURJESH		DEC N	0./LAB NO.	: 012503080041
	. 50101511				
REFERRED BY	:			FRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712		COLLE	CTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOST	IC LAB	REPOR	TING DATE	: 08/Mar/2025 02:26PM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBAL	A CANTT		
Test Name		T	/alue	Unit	Biological Reference interval
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperaming SIADH (syndrome on Pregnancy. DECREASED RATIO (<1 Phenacimide theraing Rhabdomyolysis (ref Muscular patients y 	superimposed on r 0:1) WITH DECREAS osis. d starvation. creased urea synth urea rather than cr nonemias (urea is f inappropiate anti 0:1) WITH INCREAS oy (accelerates cor eleases muscle cre who develop renal sis (acetoacetate c	enal disease. SED BUN : reatinine diffuses our virtually absent in bl diuretic harmone) du SED CREATININE: nversion of creatine t atinine). failure.	t of extracellular f lood). ue to tubular secre o creatinine).	luid). tion of urea.	ogies,resulting in normal ratio when dehydrati





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 Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. HARBANS KAUR		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1783219
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503080041
REFERRED BY	:	REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712	COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 08/Mar/2025 02:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
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)







		Dr. Vinay Chop i MD (Pathology & Mic Chairman & Consulta	crobiology)		Pathology)	
NAME	: Mrs. HARBA	NS KAUR				
AGE/ GENDER	: 70 YRS/FEMA	ALE	PATIENT ID		: 1783219	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012503080041	
REFERRED BY	:			REGISTRATION DATE	:08/Mar/2025 10:56 AM	
BARCODE NO.	:01526712			COLLECTION DATE	:08/Mar/2025 11:08AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	:08/Mar/202502:26PM	
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AMI	BALA CANTT			
Test Name			Value	Unit	Biological Reference int	erval
IRON: SERUM			IRON 24.7 ^L	PROFILE μg/dL	37.0 - 145.0	
by FERROZINE, SPEC						
UNSATURATED IR SERUM by FERROZINE, SPEC			206.99	μg/dL	150.0 - 336.0	
		231.69	µg/dL	230 - 430		
%TRANSFERRIN S by CALCULATED, SPE	ATURATION: S		10.66 ^L	%	15.0 - 50.0	
TRANSFERRIN: SE by SPECTROPHOTON			164.5 ^L	mg/dL	200.0 - 350.0	
<u>INTERPRETATION:-</u> VARIAE		ANEMIA OF CHROI		IRON DEFICIENCY ANEMIA	THALASSEMIA ~/R TDAIT	
SERUM I		Normal to Re		ROW DEFICIENCY AIVEIVIA Reduced	THALASSEMIA α/β TRAIT Normal	
TOTAL IRON BIND	-	Decrease		Increased Normal		

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

Decreased < 12-15 %

Decreased

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

% 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 Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho			m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE		PATIENT ID	: 1783219
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503080041
REFERRED BY	:		REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	: 01526712		COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:08/Mar/202501:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	Т		RINOLOGY TION TEST: TOTAI	
TRIIODOTHYRONI		0.885	ng/mL	
THYROXINE (T4): S		6.03	μgm/d	L 4.87 - 12.60
	TING HORMONE (TSH): SEI		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the pro	oduction and secretion of the	<i>ppm. The variation is of the order of 50%.Hence time of t</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lo	ow ivormal	Normal or Low Normal	High

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. HARBANS KAUR		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1783219
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503080041
REFERRED BY	:	REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	: 01526712	COLLECTION DATE	: 08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Nome	Value	TI*+	Biological Defenses of internal

Test Name		Value	Unit		Biological Reference interval
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECOM	VENDATIONS OF TSH LE	VELS DURING PREC	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECOMM 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DUR	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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.



MD (Path		n ay Chopra hology & Microbiology) n & Consultant Pathologi		(Pathology)
IAME	: Mrs. HARBANS KAU	JR		
GE/ GENDER	: 70 YRS/FEMALE		PATIENT ID	: 1783219
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503080041
REFERRED BY	:		REGISTRATION DATE	: 08/Mar/2025 10:56 AM
ARCODE NO.	:01526712		COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	В	REPORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS		I ROAD, AMBALA CANT'		
Fest Name		Value	Unit	Biological Reference interval
			FAMINS IYDROXY VITAMIN D	3
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): ESCENCE IMMUNOASSAY)	SERUM 15.5 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFI	CIENT:	< 20	r	ig/mL
	FICIENT:	21 - 29		ig/mL
	ED RANGE: CATION:	<u>30 - 100</u> > 100		ig/mL ig/mL
2.25-OHVitamin D r issue and tightly bou 3.Vitamin D plays a p	und by a transport prote rimary role in the maint ion, skeletal calcium der	y resevoir and transport in while in circulation. cenance of calcium homo position, calcium mobiliz	form of Vitamin D and trans eostatis. It promotes calciu zation, mainly regulated by	sport form of Vitamin D, being stored in adipos m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.

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 17 of 20





		hopra & Microbiology) nsultant Pathologis		(Pathology)
NAME	: Mrs. HARBANS KAUR			
AGE/ GENDER	: 70 YRS/FEMALE		PATIENT ID	: 1783219
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503080041
REFERRED BY	:		REGISTRATION DATE	: 08/Mar/2025 10:56 AM
BARCODE NO.	:01526712		COLLECTION DATE	:08/Mar/2025 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Mar/2025 01:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
<u>NTERPRETATION:-</u> INCREAS	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12		DECREASED VITAMIN	NB12
1.Ingestion of Vitar 2.Ingestion of Estro		1.Pregna		Ostablistas
2.Ingestion of Vitan			S:Aspirin, Anti-convulsants ol Igestion	, colchicitie
4.Hepatocellular in	jury	4. Contr	aceptive Harmones	
5.Myeloproliferativ	e disorder		odialysis	
6.Uremia	amin) is necessary for hemator		ple Myeloma	
3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal	ency may be due to lack of IF se l intestinal diseases). ency frequently causes macrocy	ically, reabsorbing cretion by gastric r /tic anemia, glossit	vitamin B12 from the ileun nucosa (eg, gastrectomy, g is, peripheral neuropathy,	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (en weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have





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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD EO & Consultant	(Pathology)
NAME : Mrs. H	ARBANS KAUR			
AGE/ GENDER : 70 YRS/	/FEMALE	PATIENT	ID	: 1783219
COLLECTED BY : SURJES	Н	REG. NO./	LAB NO.	: 012503080041
REFERRED BY :		REGISTR	ATION DATE	:08/Mar/2025 10:56 AM
BARCODE NO. : 015267	12		ION DATE	:08/Mar/202511:08AM
	AGNOSTIC LAB	REPORTI	NG DATE	: 08/Mar/2025 12:05PM
CLIENT ADDRESS : 6349/1	, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO		
		TINE & MICROSCO		ATION
PHYSICAL EXAMINATION				
QUANTITY RECIEVED	CTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPE TRANSPARANCY	CTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINATION				
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SPEN PROTEIN	CIROPHOIOMEIRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY			
SUGAR by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		6		5.0 - 7.5
by DIP STICK/REFLECTANCE SPEN BILIRUBIN	CIROPHOIOMEIRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY			
NITRITE by DIP STICK/REFLECTANCE SPE	CTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPE		Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPE		Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPEC ASCORBIC ACID	CTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPE		NEGATIVE (-ve)		NEGATIVE (-VE)
MICROSCOPIC EXAMINATION	<u>ON</u>			
RED BLOOD CELLS (RBCs)		NEGATIVE (-ve)	/HPF	0 - 3



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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist CE

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

NAME	: Mrs. HARBANS KAUR				
AGE/ GENDER			PATIENT ID	: 1783219 : 012503080041 : 08/Mar/2025 10:56 AM	
COLLECTED BY			REG. NO./LAB NO.		
REFERRED BY	:	REGISTRATION DATE			
BARCODE NO.	: 01526712	(COLLECTION DATE	:08/Mar/2025 11:08AM	
CLIENT CODE.			REPORTING DATE	: 08/Mar/2025 12:05PM	
CLIENT ADDRESS					
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		0-2	/HPF	0 - 5	
		0.4		ADCENT	

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	

** End Of Report ***



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

V 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

