



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F			Pathology)
NAME	: Mrs. JASWINDER KAUR			
AGE/ GENDER	: 55 YRS/FEMALE		PATIENT ID	: 1810611
COLLECTED BY	:		REG. NO./LAB NO.	: 012503290010
REFERRED BY	:		REGISTRATION DATE	: 29/Mar/2025 08:15 AM
BARCODE NO.	: 01527956		COLLECTION DATE	: 29/Mar/2025 08:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 09:24AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT		
Test Name	V	alue	Unit	Biological Reference interval
	SWASTHY	A WE	LLNESS PANEL: 1.	5
			DOD COUNT (CBC)	
RED BLOOD CELI	<u>S (RBCS) COUNT AND INDICES</u>			
HAEMOGLOBIN (HI	B)	13.4	gm/dL	12.0 - 16.0
by CALORIMETRIC	(RBC) COUNT	4.87	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FO	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOL	JUME (PCV) JTOMATED HEMATOLOGY ANALYZER	41.7	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	85.7	fL	80.0 - 100.0
	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	27.4	pg	27.0 - 34.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER			
	LAR HEMOGLOBIN CONC. (MCHC)	32	g/dL	32.0 - 36.0
	BUTION WIDTH (RDW-CV)	14	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-SD)	45.2	fL	35.0 - 56.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		17.6	RATIO	BETA THALASSEMIA TRAIT: - 13.0
				IRON DEFICIENCY ANEMIA:
ODEEN & VINC DI	DEV	76 72	DATIO	>13.0 RETA THALASSEMIA TRAIT.
GREEN & KING INI by CALCULATED	UEA	76.73	RATIO	BETA THALASSEMIA TRAIT: <= 65.0
				IRON DEFICIENCY ANEMIA:
				65.0
WHITE BLOOD CH		1000		4000 11000
FOTAL LEUCOCYT by FLOW CYTOMETRY	E COUNT (TLC) by sf cube & microscopy	4990	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	T HEMATOLOGY ANALYZER			





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Page 1 of 20





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Test Name		Value	Unit	Biological Reference interval
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL 1	LEUCOCYTE COUNT (DLC)			
NEUTROPHILS		73 ^H	%	50 - 70
	RY BY SF CUBE & MICROSCOPY			
LYMPHOCYTES	RY BY SF CUBE & MICROSCOPY	17 ^L	%	20 - 40
EOSINOPHILS	RT BT SF COBE & MICROSCOFT	3	%	1 - 6
	RY BY SF CUBE & MICROSCOPY	5	70	1 0
MONOCYTES		7	%	2 - 12
	RY BY SF CUBE & MICROSCOPY			
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
•	KOCYTES (WBC) COUNT			
ABSOLUTE NEUT		3643	lamm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY	3043	/cmm	2000 - 7500
ABSOLUTE LYM	PHOCYTE COUNT	848	/cmm	800 - 4900
	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSI		150	/cmm	40 - 440
ABSOLUTE MON	RY BY SF CUBE & MICROSCOPY	349	/cmm	80 - 880
	RY BY SF CUBE & MICROSCOPY	547	/ cillini	00 - 000
PLATELETS AND	O OTHER PLATELET PREDICTIV	E MARKERS.		
PLATELET COUN	NT (PLT)	188000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (0.28	%	0.10 - 0.36
MEAN PLATELET	FOCUSING, ELECTRICAL IMPEDENCE	-H	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	15 ^H	IL	0.50 - 12.0
PLATELET LARG	E CELL COUNT (P-LCC)	112000 ^H	/cmm	30000 - 90000
-	FOCUSING, ELECTRICAL IMPEDENCE			
	E CELL RATIO (P-LCR)	59.6 ^H	%	11.0 - 45.0
•	RIBUTION WIDTH (PDW)	16.4	%	15.0 - 17.0
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE	1011	10	2010 2010
MOTE. TEST COMD	UCTED ON EDTA WHOLE DLOOD			

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Val	lue Unit	Biological Reference interval





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BARCODE NO.	: 01527956	COI	LECTION DATE	: 29/Mar/2025 08:19AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 29/Mar/2025 02:52PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
	,				
Test Name		Value	Unit	Biological Reference interva	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER	IAEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6 125.5	% mg/dL	4.0 - 6.4 60.00 - 140.00	
	AS PER AMERICAN	DIABETES ASSOCIATIO	N (ADA):		
	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	/	<5.7		
	t Risk (Prediabetes)		5.7 - 6.4		
D	Viagnosing Diabetes		>= 6.5		
		Goals of T	Age > 19 Years	< 7.0	
Therapeut	ic goals for glycemic control			>8.0	
merapeutic goals for grycemic control			Actions Suggested: >8.0 Age < 19 Years		
			$Ay_{C} < 17 Cal S$		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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

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

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

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

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



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 10:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANT	Γ	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SED	IMENTATION RATE	(ESR)
by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specifi immune disease, but 4 2. An ESR can be affect as C-reactive protein 3. This test may also be systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does	DIMENTATION RATE (ESR) ATION BY CAPILLARY PHOTOMETRY c test because an elevated result of does not tell the health practitione sted by other conditions besides in be used to monitor disease activity matosus V ESR n with conditions that inhibit the n	22 ^H often indicates er exactly whe flammation. F and response ormal sedime nt (leucocytos c. of inflammatio P, either at the	mm/1st h s the presence of inflammat re the inflammation is in the or this reason, the ESR is typ e to therapy in both of the a ntation of red blood cells, so is) , and some protein abno n. e start of inflammation or as	In 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such is it resolves.
4. If the ESR is elevate5. Women tend to have6. Drugs such as dexti	ed, it is typically a result of two typ e a higher ESR, and menstruation a	es of proteins and pregnancy	, globulins or fibrinogen. y can cause temporary eleva	





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		Chopra gy & Microbiology) Consultant Pathologis		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. JASWINDER KAUR : 55 YRS/FEMALE : : : 01527956 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON RO.		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1810611 : 012503290010 : 29/Mar/2025 08:15 AM : 29/Mar/2025 08:19AM : 29/Mar/2025 11:16AM
Test Name		Value	Unit	Biological Reference interval
	CLIN		STRY/BIOCHEMIS E FASTING (F)	STRY
INTERPRETATION IN ACCORDANCE WIT 1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	TH AMERICAN DIABETES ASSO Jucose level below 100 mg/d Jucose level between 100 - 1 ion of 75 gms of glucose) is re	l is considered norm 25 mg/dl is consider commended for all s /dl is highly suggesti	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for all atory for diabetic state.
den patients. A last				



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COLLECTED BY : REFERRED BY : BARCODE NO. : 01527956 CLIENT CODE. : KOS DIAGNOSTIC LAB CLIENT ADDRESS : 6349/1, NICHOLSON F Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC,			
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CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC,	ROAD, AMBALA CANTI		
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM	Value	Unit	Biological Reference interval
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC,	LIPID PR	OFILE : BASIC	
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM	197.32	mg/dL	OPTIMAL: < 200.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM		5	BORDERLINE HIGH: 200.0 -
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM			239.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM			HIGH CHOLESTEROL: > OR = 240.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC, HDL CHOLESTEROL (DIRECT): SERUM	103.54	mg/dL	OPTIMAL: < 150.0
			BORDERLINE HIGH: 150.0 -
			199.0
			HIGH: 200.0 - 499.0
	64.45	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
	04.45	ilig/ dL	BORDERLINE HIGH HDL: 30.0
			60.0
			HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: SERUM	112.16	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
			159.0
			HIGH: 160.0 - 189.0
			VERY HIGH: $> OR = 190.0$
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	132.87 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
			VERY HIGH: $> OR = 220.0$
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	20.71	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	498.18	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMETRY			
CHOLESTEROL/HDL RATIO: SERUM	3.06	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
		Λ	

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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		1.74	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	1.61 ^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.

 Cow HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name		Value	Unit	Biological Reference interval
	LIVER F		TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.85	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.18	mg/dL	0.00 - 0.40
-	ECT (UNCONJUGATED): SERUM	0.67	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		18.95	U/L	7.00 - 45.00
SGPT/ALT: SERUM		14.47	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM	1.31	RATIO	0.00 - 46.00
ALKALINE PHOSPI		139.4 ^H	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM PHTOMETRY	68.56 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO	: SERUM	6.94	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.18	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.76	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	M	1.51	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		





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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam C MD (Pa & Consultant Pat	thology)
NAME	: Mrs. JASWINDER KAUR			
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT ID	:	: 1810611
COLLECTED BY	:	REG. NO./LAI	B NO.	: 012503290010
REFERRED BY	:	REGISTRATI	ON DATE	: 29/Mar/2025 08:15 AM
BARCODE NO.	: 01527956	COLLECTION	DATE	: 29/Mar/2025 08:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	DATE	: 29/Mar/2025 11:19AM
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	sed)

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



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	MD (Pathology & M Chairman & Consult						
NAME	: Mrs. JASWINDER KAUR						
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Test Name		Value	Unit	Biological Reference interval			
	KIDNEY	FUNCTIC	ON TEST (COMPLETE	Ξ)			
UREA: SERUM		30.56	mg/dL	10.00 - 50.00			
CREATININE: SER	/ATE DEHYDROGENASE (GLDH) UM	0.89	mg/dL	0.40 - 1.20			
by ENZYMATIC, SPEC		0.09	ing/ull	0.10 1.20			
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		14.28	mg/dL	7.0 - 25.0			
	ROGEN (BUN)/CREATININE	16.04	RATIO	10.0 - 20.0			
RATIO: SERUM	ECTROPHOTOMETRY						
UREA/CREATININ		34.34	RATIO				
	ECTROPHOTOMETRY						
URIC ACID: SERUN by URICASE - OXIDAS		5.03	mg/dL	2.50 - 6.80			
CALCIUM: SERUM		8.82	mg/dL	8.50 - 10.60			
by ARSENAZO III, SPE		2.41	(17	2.20 4.50			
PHOSPHOROUS: SI by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.61	mg/dL	2.30 - 4.70			
ELECTROLYTES							
SODIUM: SERUM		142.5	mmol/L	135.0 - 150.0			
by ISE (ION SELECTIVE ELECTRODE)							
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		4.34	mmol/L	3.50 - 5.00			
	CHLORIDE: SERUM		mmol/L	90.0 - 110.0			
by ISE (ION SELECTIV							
	MERULAR FILTERATION RAT						
	MERULAR FILTERATION RATE	76.5					
(eGFR): SERUM by CALCULATED							
INTERPRETATION:	upper property and past ronal azotomia						

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					ID (Pathology)	
IAME	: Mrs. JASV	/INDER KAUR				
GE/ GENDER	: 55 YRS/FE	MALE	PAT	TENT ID	: 1810611	
OLLECTED BY			REG	. NO./LAB NO.	:012503290010	
EFERRED BY				ISTRATION DATE		5 AM
ARCODE NO.	:01527956			LECTION DATE	: 29/Mar/2025 08:1	
LIENT CODE.		NOSTIC LAB		ORTING DATE	: 29/Mar/2025 11:19	9AM
LIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMB	ALA CANTT			
Test Name			Value	Unit	Biological	Reference interval
 Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< 	10:1) WITH DE rosis. and starvation. e. creased urea (urea rather ti monemias (u of inappropiat 10:1) WITH IN eleases musc	CREASED BUN : synthesis. nan creatinine diffuses of rea is virtually absent in e antidiuretic harmone) CREASED CREATININE: es conversion of creating e creatinine).	blood). due to tubular se			
hould produce an in	sis (acetoace ⁻ creased BUN/	creatinine ratio).		ith certain method	blogies,resulting in norma	l ratio when dehydratio
nould produce an in . Cephalosporin thei STIMATED GLOMERI	sis (acetoace creased BUN/ apy (interfere	creatinine ratio). s with creatinine measu ION RATE:	urement).			l ratio when dehydratio
hould produce an in . Cephalosporin thei <u>STIMATED GLOMERI</u> CKD STAGE	sis (acetoace creased BUN/ rapy (interfere JLAR FILTERAT	creatinine ratio). s with creatinine measu ION RATE: DESCRIPTION	urement). GFR (mL/m	in/1.73m2)	ASSOCIATED FINDINGS	l ratio when dehydratio
hould produce an in . Cephalosporin thei STIMATED GLOMERI	sis (acetoace creased BUN/ rapy (interfere JLAR FILTERAT	creatinine ratio). s with creatinine measu ION RATE:	urement).			l ratio when dehydratio

G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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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

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Test Name		Value	Unit	Biological Reference interval
		IRON P	ROFILE	
IRON: SERUM		88.9	μg/dL	37.0 - 145.0
by FERROZINE, SPECT	TROPHOTOMETRY			
	ON BINDING CAPACITY (UIBC)	214.6	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPECT	TROPHOTOMETERY			
	DING CAPACITY (TIBC)	303.5	μg/dL	230 - 430
:SERUM by SPECTROPHOTOM	ETEDV			
	ATURATION: SERUM	29.29	%	15.0 - 50.0
	CTROPHOTOMETERY (FERENE)			
TRANSFERRIN: SEI	-	215.49	mg/dL	200.0 - 350.0

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON:

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

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):
 It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

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



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	Chairman & Con	k Microbiology) sultant Pathologist	CEO & Consultant I	Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interv
		ENDOCRIN	OLOGY	
	TH	YROID FUNCTIO	N TEST: TOTAL	
TRIIODOTHYRONI by CMIA (CHEMILUMIN	NE (T3): SERUM escent microparticle immunoa	1.154 SSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM escent microparticle immunoa	10.29 SSAY)	μgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SE ESCENT MICROPARTICLE IMMUNOA		µIU/mL	0.35 - 5.50
Brd GENERATION, ULTH INTERPRETATION:	RASENSITIVE			
day has influence on the n	neasured serum TSH concentrations. TS	SH stimulates the product	on and secretion of the me	n. The variation is of the order of 50%.Hence time of tabolically active hormones, thyroxine (T4)and underproduction (hypothyroidism) or

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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





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Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit	t	Biological Reference interval
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	
	RECOM	MENDATIONS 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		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5.Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester





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Test Name	Value	Unit	Biological Reference interval			
VITAMINS						
	VITAMIN D/25	HYDROXY VITAMIN I	03			
	DROXY VITAMIN D3): SERUM 9.1L ESCENCE IMMUNOASSAY)	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0			

DEFICIENT:	< 20	ng/mL	
INSUFFICIENT:	21 - 29	ng/mL	
PREFFERED RANGE:	30 - 100	ng/mL	
INTOXICATION:	> 100	ng/mL	ĺ

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4.Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Гest Name		Value	Unit	Biological Reference interval
		VITAMIN B12	COBALAMIN	
	ALAMIN: SERUM	200 ISSAY)	pg/mL	190.0 - 890.0
NTERPRETATION:-		<u> </u>		1010
1.Ingestion of Vitam	ED VITAMIN B12	1.Pregnar	DECREASED VITAMIN	IBIZ
2.Ingestion of Estrog			Aspirin, Anti-convulsants	Colchicine
3.Ingestion of Vitam		3.Ethanol		
4.Hepatocellular inj			eptive Harmones	
5.Myeloproliferativ 6.Uremia	e disorder	5.Haemo	dialysis e Myeloma	
2.In humans, it is obt 3.The body uses its vi excreted. 1.Vitamin B12 deficie leal resection, small	ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocyt	s and requires intri cally, reabsorbing v retion by gastric m tic anemia, glossitis	nsic factor (IF) for absorp tamin B12 from the ileun ucosa (eg, gastrectomy, g	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of
proprioception, poor he neurologic defect	s without macrocytic anemia. nic acid and homocysteine level	s aro also olovatod	in vitamin B12 doficionev	5





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REFERRED BY	•		FRATION DATE	: 29/Mar/2025 08:15 AM
BARCODE NO.	: 01527956		CTION DATE	: 29/Mar/2025 08:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 29/Mar/2025 09:23AM
			TING DATE	. 29/ Mai / 2023 09.23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CAN I I		
Test Name		Value	Unit	Biological Reference inter
		CLINICAL PATH	HOLOGY	
	URINE ROU	TINE & MICROSC	OPIC EXAMI	NATION
PHYSICAL EXAM	INATION			
QUANTITY RECIE		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	AWIDER TELLOW	Y	FALE TELEOW
TRANSPARANCY		HAZY		CLEAR
	TANCE SPECTROPHOTOMETRY	1.01		1 000 1 000
SPECIFIC GRAVIT	Y TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAM				
REACTION		ACIDIC		
-	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
pH		6.5		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Inegative		$\mathbf{NEOATIVE}(-ve)$
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	1 (ogud to		
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
,				

Dr. Vinay Chopra

MICROSCOPIC EXAMINATION



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Dr. Yugam Chopra	
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CEO & Consultant Pathologist	

NAME	: Mrs. JASWINDER KAUR			
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT I	D	: 1810611
COLLECTED BY	:	REG. NO./I	AB NO.	: 012503290010
REFERRED BY	:	REGISTRA	FION DATE	: 29/Mar/2025 08:15 AM
BARCODE NO.	: 01527956	COLLECTIO	ON DATE	: 29/Mar/2025 08:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	G DATE	: 29/Mar/2025 09:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
	: 6349/1, NICHOLSON ROAD, AN			
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AM	/BALA CANTT Value	Unit	Biological Reference interval
Test Name RED BLOOD CELL			Unit /HPF	Biological Reference interval 0 - 3
Test Name RED BLOOD CELL by MICROSCOPY ON C PUS CELLS	S (RBCs)	Value		

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

CRYSTALS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT