

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F			Pathology)	
NAME	: Mrs. SIMRANJEET KAUR				
AGE/ GENDER	: 50 YRS/FEMALE		PATIENT ID	: 1810741	
COLLECTED BY	:		REG. NO./LAB NO.	:04250329000	2
REFERRED BY	:		REGISTRATION DATE	: 29/Mar/2025 1	
BARCODE NO.	: A1260754		COLLECTION DATE	: 29/Mar/2025 0	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 29/Mar/2025 04	4:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CAN I I			
Test Name	V	alue	Unit	Biologi	cal Reference interval
	SWASTHY	A WE	LLNESS PANEL: 1.	5	
	COMPLE	TE BL	OOD COUNT (CBC)		
RED BLOOD CELI	LS (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HI	B)	13.2	gm/dL	12.0 -	16.0
RED BLOOD CELL	(RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.59 ^H	Millions/	cmm 3.50 -	5.00
PACKED CELL VOL	LUME (PCV) UTOMATED HEMATOLOGY ANALYZER	42.1	%	37.0 -	50.0
MEAN CORPUSCUL	LAR VOLUME (MCV)	75.4 ^L	fL	80.0 -	100.0
MEAN CORPUSCUL	LAR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	23.6 ^L	pg	27.0 -	34.0
	LAR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.3 ^L	g/dL	32.0 -	36.0
	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	16	%	11.00	- 16.00
	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	45.1	fL	35.0 -	56.0
MENTZERS INDEX by CALCULATED		13.49	RATIO	13.0	THALASSEMIA TRAIT: <
				>13.0	
GREEN & KING IN	DEX	68.91	RATIO		THALASSEMIA TRAIT:
by CALCOLATED				<= 65. IRON 65.0	0 DEFICIENCY ANEMIA: >
WHITE BLOOD CI	ELLS (WBCS)				
TOTAL LEUCOCYT	TE COUNT (TLC) y by sf cube & microscopy	9790	/cmm	4000 -	11000
	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 -	20.00
NUCLEATED RED	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %	,)
			Λ		



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







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			. 20/ Mai/ 2020 0 1.001 M
Test Name		Value	Unit	Biological Reference interval
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	56	%	50 - 70
LYMPHOCYTES		28	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	10 ^H	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR	ROPHIL COUNT (by sf cube & microscopy	5482	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETRY	HOCYTE COUNT (by sf cube & microscopy	2741	/cmm	800 - 4900
ABSOLUTE EOSIN	OPHIL COUNT / by sf cube & microscopy	979 ^H	/cmm	40 - 440
ABSOLUTE MONO	CYTE COUNT (by SF cube & microscopy	587	/cmm	80 - 880
PLATELETS AND	OTHER PLATELET PREDICTIV	<u>E MARKERS.</u>		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT)	409000	/cmm	150000 - 450000
PLATELETCRIT (P by HYDRO DYNAMIC F	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.43 ^H	%	0.10 - 0.36
MEAN PLATELET ' by hydro dynamic f	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
	CELL COUNT (P-LCC)	123000 ^H	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	30	%	11.0 - 45.0
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) OCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD	16.1	%	15.0 - 17.0
NOTE. TEST CONDU	CIED ON EDIA WHOLE DLUUD			

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Test Name	Valı	ue Unit	Biological Reference interval





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			NING DATE	. 29/ Mai / 2025 04.52r M
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CAN I I		
Test Name		Value	Unit	Biological Reference interva
GLYCOSYLATED H WHOLE BLOOD	IAEMOGLOBIN (HbA1c):	SYLATED HAEM(7 ^H	%	4.0 - 6.4
ESTIMATED AVER	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	154.2 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN F	DIABETES ASSOCIATION (
	REFERENCE GROUP		ATED HEMOGLOGIB	(HBAIC) in %
Non di	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
_	Diagnosing Diabetes		>= 6.5	
D			Age > 19 Years	
D				7.0
	tic goals for allocomic control	Goals of The	apy:	< 7.0
	tic goals for glycemic control	Goals of The Actions Sugge	apy:	< 7.0 >8.0

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 appropiate.

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 ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHROC	CYTE SEDIMEN	NTATION RATE	(ESR)
	EDIMENTATION RATE (ESR) gation by capillary photometry	79 ^H	mm/1st h	ır 0 - 20
(polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	en with conditions that inhibit the non- hificantly high white blood cell coun le cell anaemia) also lower the ESR. The protein (C-RP) are both markers of es not change as rapidly as does CRP I by as many other factors as is ESR, r ed, it is typically a result of two type lowe a higher ESR, and menstruation a	t (leucocytosis), ar f inflammation. e, either at the start making it a better m es of proteins, globu and pregnancy can c	d some protein abno of inflammation or as arker of inflammatior lins or fibrinogen. ause temporary eleva ocainamide, theophyl	rmalities. Šome changes in red cell shape (such s it resolves. 1.





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CLIENT CODE.	: KOS DIAGNOSTIC SH	IAHBAD I	REPORTING DATE	: 29/Mar/2025 04:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	I ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CL	INICAL CHEMIS GLUCOSE	FRY/BIOCHEMIS FASTING (F)	
GLUCOSE FASTIN by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POL) 105.04^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	lucose level below 100 r lucose level between 10 on of 75 gms of glucose) lucose level of above 12	is recommended for all su	as glucose intolerant or ch patients. e of diabetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.

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 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



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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	DFILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	239.91 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		239.91	6	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S	SERUM	151.19 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)	101117		BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
	DL (DIRECT): SERUM	53.79	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ION			BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO	L: SERUM	155.88 ^H	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY	155.66		ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLES		186.12 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: $>$ OR $=$ 220.0
VLDL CHOLESTER		30.24	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		631.01	mg/dL	350.00 - 700.00
by CALCULATED, SPE				
T HOLESTER()L/HD	DL RATIO: SERUM ctrophotometry	4.46 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE	-	2.9	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.81 ^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	UNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.3	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.21	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	18.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM		32.1	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.59	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	113.12	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUN Phtometry	1 47.55	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.66	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.19	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	3.47	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	M	1.21	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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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly I	ncreased)

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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Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION	N TEST (COMPLETE	
UREA: SERUM by UREASE - GLUTAN	MATE DEHYDROGENASE (GLDH)	31.08	mg/dL	10.00 - 50.00
CREATININE: SER	CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		mg/dL	0.40 - 1.20
	ROGEN (BUN): SERUM ECTROPHOTOMETRY	14.52	mg/dL	7.0 - 25.0
BLOOD UREA NIT RATIO: SERUM	ROGEN (BUN)/CREATININE	16.13	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININ	IE RATIO: SERUM ECTROPHOTOMETRY	34.53	RATIO	
URIC ACID: SERUI	M	3.14	mg/dL	2.50 - 6.80
CALCIUM: SERUM		8.76	mg/dL	8.50 - 10.60
PHOSPHOROUS: S by PHOSPHOMOLYB	ERUM DATE, SPECTROPHOTOMETRY	3.24	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIN	/E ELECTRODE)	137.25	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.52	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIN		102.94	mmol/L	90.0 - 110.0
ESTIMATED GLO	MERULAR FILTERATION RAT	<u>E</u>		
ESTIMATED GLO (eGFR): SERUM by CALCULATED INTERPRETATION:	MERULAR FILTERATION RATE	2 77.9		
	veen pre- and post renal azotemia.			

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.



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

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







	Dr. Vinay MD (Patholo Chairman & O				g am Chopra MD (Pathology) tant Pathologist	
NAME	: Mrs. SIMR	ANJEET KAUR				
AGE/ GENDER	: 50 YRS/FEM	IALE	PA	FIENT ID	: 1810741	
COLLECTED BY			RE	G. NO./LAB NO.	: 0425032900	02
REFERRED BY				GISTRATION DATI		
BARCODE NO.	: A1260753			LLECTION DATE	: 29/Mar/2025 (
CLIENT CODE.	: KOS DIAGN	OSTIC SHAHBAD	RE	PORTING DATE	: 29/Mar/2025 (05:09PM
CLIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, AMBA	LA CANTT			
Test Name			Value	Unit	Biolog	gical Reference interval
burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 2	exia, high fever) n (e.g. ureter col nass (subnorma tetracycline, gl 20:1) WITH ELEV	ostomy) I creatinine production) ucocorticoids) ATED CREATININE LEVE) LS:			drome, high protein diet,
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burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the	ake or productic exia, high fever) in (e.g. ureter col hass (subnormal tetracycline, gl 20:1) WITH ELEV a (BUN rises dis superimposed 10:1) WITH DECI tosis. Ind starvation. e. creased urea sy (urea rather that imonemias (urea of inappropiate 10:1) WITH INCF apy (accelerates releases muscle who develop re- sis (acetoaceta creased BUN/c rapy (interferes	ostomy) I creatinine production) ucocorticoids) ATED CREATININE LEVE proportionately more th on renal disease. REASED BUN : an creatinine diffuses o ta is virtually absent in l antidiuretic harmone) of REASED CREATININE: conversion of creatine creatinine). enal failure. te causes false increase reatinine ratio). with creatinine measur) LS: han creatinine) ut of extracellu blood). due to tubular s to creatinine). e in creatinine v	(e.g. obstructive urd lar fluid). ecretion of urea.	opathy).	
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		······································	
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , 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	





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

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







	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. SIMRANJEET KAUR		
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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 FR category reported as per KDIGO guideline 2012

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 ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist						
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Test Name		Value	Unit	Biological Reference interval		
		IRON PRO	OFILE			
IRON: SERUM	TROPHOTOMETRY	70.2	μg/dL	37.0 - 145.0		
•	ON BINDING CAPACITY (UIBC)	295.4	μg/dL	150.0 - 336.0		
•	DING CAPACITY (TIBC)	365.6	μg/dL	230 - 430		
	ATURATION: SERUM CTROPHOTOMETERY (FERENE)	19.2	%	15.0 - 50.0		
TRANSFERRIN: SEI by SPECTROPHOTOM	-	259.58	mg/dL	200.0 - 350.0		

INTERPRETATION:-

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.



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

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







	Dr. Vinay Chc MD (Pathology & Chairman & Const	Microbiology)	Dr. Yugam Ch MD (Path CEO & Consultant Path	ology)
NAME	: Mrs. SIMRANJEET KAUR			
AGE/ GENDER	: 50 YRS/FEMALE	PATIE	NT ID : 1	810741
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Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	LOGY	
	THY	ROID FUNCTION	TEST: TOTAL	
TRIIODOTHYRON	INE (T3): SERUM	0.825 SAY)	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMII	SERUM	9.4	µgm/dL	4.87 - 12.60
THYROXINE (T4):	SCENT MICROPARTICLE IMMUNOAS	SAY)		
THYROXINE (T4): by CMIA (CHEMILUMIN THYROID STIMUL	NESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SER NESCENT MICROPARTICLE IMMUNOAS	RUM 3.467	µIU/mL	0.35 - 5.50
THYROXINE (T4): by CMIA (CHEMILUMIN THYROID STIMUL	ATING HORMONE (TSH): SER	RUM 3.467	µIU/mL	0.35 - 5.50

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	ubclinical Hypothyroidism: 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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40

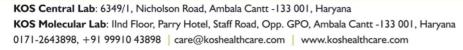




DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)









		Dr. Vinay ChopraDr. YuganMD (Pathology & Microbiology)MDChairman & Consultant PathologistCEO & Consultant	
NAME	: Mrs. SIMRANJEET KAUR		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1810741
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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	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)	•	
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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







Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist								
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Test Name		Value	Unit	Biological Reference interval				
VITAMINS								
VITAMIN D/25 HYDROXY VITAMIN D3								
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 39.6 by clia (CHEMILUMINESCENCE IMMUNOASSAY)		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0					

INTERPRETATION

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.



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

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CLIENT CODE.	: 6349/1, NICHOLSON ROAD,		KIING DATE	. 29/ Mai / 2025 05.50PM			
Test Name	_	Value	Unit	Biological Reference interval			
		VITAMIN B12/CO	BALAMIN				
VITAMIN B12/COB		315.09	pg/mL	190.0 - 830			
NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOAS	SSAY)					
	SED VITAMIN B12		DECREASED VITAMI	N B12			
1.Ingestion of Vitan		1.Pregnancy					
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitan			3.Ethanol Igestion				
4.Hepatocellular in			4. Contraceptive Harmones				
5.Myeloproliferativ	e disorder		5.Haemodialysis 6. Multiple Myeloma				
6.Uremia	amin) is necessary for hematopo						
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing f NOTE: A normal serur deficiency at the cell	tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF secr intestinal diseases). ency frequently causes macrocyt coordination, and affective beha ts without macrocytic anemia. nic acid and homocysteine levels or antibodies to intrinsic factor (n concentration of vitamin B12 d	and requires intrinsic f ally, reabsorbing vitamin retion by gastric mucosa ic anemia, glossitis, peri avioral changes. These r are also elevated in vit. IF) is recommended to in oes not rule out tissue of f clinical symptoms sugg	actor (IF) for absorp n B12 from the ileur (eg, gastrectomy, g pheral neuropathy, nanifestations may amin B12 deficiency dentify this potentia leficiency of vitamin	n and returning it to the liver; very little is jastric atrophy) or intestinal malabsorption (weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients hav			
considered, even if s	erum vitamin B12 concentrations	s are normal.	est denciency, mea	surement of MiniA and homocysteme shot			

677 2.7.1



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. Yugam Chopra

				1D (Pathology) ant Pathologist	
NAME	: Mrs. SIMRANJEET KAUR				
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COLLECTED BY	:	REG. N	IO./LAB NO.	: 042503290002	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interv	
		CLINICAL PAT	HOLOGY		
	URINE ROU	TINE & MICROSO	COPIC EXAMI	NATION	
PHYSICAL EXAM	INATION				
QUANTITY RECIE	VED	10	ml		
-	TANCE SPECTROPHOTOMETRY				
COLOUR		PALE YELLOW		PALE YELLOW	
-	TANCE SPECTROPHOTOMETRY			CLEAD	
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		HAZY		CLEAR	
SPECIFIC GRAVITY		1.02		1.002 - 1.030	
	TANCE SPECTROPHOTOMETRY				
CHEMICAL EXAM	IINATION				
REACTION		ACIDIC			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR					
		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH		6		5.0 - 7.5	
	TANCE SPECTROPHOTOMETRY	0		5.0 - 1.5	
BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		J.			
NITRITE		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Normal		0.2 1.0	
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0	
KETONE BODIES		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Tioguitto			
BLOOD		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY				
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)	NEGATIVE (-ve)	
by DIF STICKREFLEC					

Dr. Vinay Chopra

MICROSCOPIC EXAMINATION



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

NAME	: Mrs. SIMRANJEET KAUR		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1810741
COLLECTED BY	:	REG. NO./LAB NO.	: 042503290002
REFERRED BY	:	REGISTRATION DATE	: 29/Mar/2025 11:34 AM
BARCODE NO.	: A1260755	COLLECTION DATE	: 29/Mar/2025 03:42PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 29/Mar/2025 04:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	N N	alue Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-8	/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)

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

