



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mrs. SATINDER KAUR				
AGE/ GENDER	: 52 YRS/FEMALE		PATIENT ID	: 1447540	
COLLECTED BY	:		REG. NO./LAB NO.	:012407050	017
REFERRED BY	:		REGISTRATION DATE	:05/Jul/2024	08:53 AM
BARCODE NO.	: 01512556		COLLECTION DATE	:05/Jul/2024	08:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:05/Jul/20240	09:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit	Biolo	gical Reference interval
	SWAST	'HYA WE	LLNESS PANEL: 1.2		
			OOD COUNT (CBC)		
RED BLOOD CELLS (R	BCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		8.9 ^L	gm/dL	12.0	- 16.0
RED BLOOD CELL (RB	C) COUNT DCUSING, ELECTRICAL IMPEDENCE	4.21	Millions/c	mm 3.50	- 5.00
PACKED CELL VOLUM		29.1 ^L	%	37.0	- 50.0
MEAN CORPUSCULAR by CALCULATED BY A	R VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	69.3 ^L	fL	80.0	- 100.0
	R HAEMOGLOBIN (MCH) utomated hematology analyzer	21.1 ^L	pg		- 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.5 ^L	g/dL	32.0	- 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	16	%	11.00) - 16.00
RED CELL DISTRIBUTI	ON WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	41	fL	35.0	- 56.0
MENTZERS INDEX		16.46	RATIO		THALASSEMIA TRAIT: < 13.0 DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE>	<	26.29	RATIO		THALASSEMIA TRAIT: < =
	(1)(0,0)				DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	·	2750 ^L	/cmm	4000	- 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		701111		
NUCLEATED RED BLO by CALCULATED BY AU MICROSCOPY	OD CELLS (nRBCS) JTOMATED HEMATOLOGY ANALYZER &	NIL		0.00	- 20.00
NUCLEATED RED BLO by CALCULATED BY AU MICROSCOPY	JTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10	%
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>				



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SATINDER KAUR AGE/ GENDER : 52 YRS/FEMALE **PATIENT ID** :1447540 **COLLECTED BY** :012407050017 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 05/Jul/2024 08:53 AM **BARCODE NO.** :01512556 **COLLECTION DATE** :05/Jul/2024 08:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Jul/2024 09:39AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 65 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 27 LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 4 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 4 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT **ABSOLUTE NEUTROPHIL COUNT** 2000 - 7500 /cmm 1788^L by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 742^L 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 110 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 110 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 /cmm 42000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.05^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 13^H MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 21000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 56^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.1 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE ADVICE KINDLY CORRELATE CLINICALLY

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

RECHECKED



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Jul/2024 09:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDI	MENTATION RATE (ES	R)
	MENTATION RATE (ESR)	18	mm/1st h	nr 0 - 20
(polycythaemia), sig as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR do 3. CRP is not affected 4. If the ESR is eleval 5. Women tend to ha 5. Drugs such as dex	en with conditions that inhibit th nificantly high white blood cell o le cell anaemia) also lower the ve protein (C-RP) are both marke es not change as rapidly as does I by as many other factors as is E ted, it is typically a result of two ave a higher ESR, and menstruati	count (leucocytosi ESR. CRP, either at the SR, making it a be t types of proteins, ion and pregnancy	s), and some protein abno start of inflammation or as tter marker of inflammatior globulins or fibrinogen. can cause temporary eleva	n.
	am	6	hopra	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mrs. SATINDER KAUR				
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REFERRED BY	:	REGIS	TRATION DATE	: 05/Jul/2024 08:53 AM	
BARCODE NO.	:01512556	COLLI	ECTION DATE	: 05/Jul/2024 08:59AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 05/Jul/2024 09:54AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLINI	CAL CHEMISTRY/	BIOCHEMISTR	Y	
		GLUCOSE FAST	'ING (F)		
		105.34 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0	
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.					





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		hopra & Microbiology) Insultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. SATINDER KAUR				
AGE/ GENDER	: 52 YRS/FEMALE	PA	TIENT ID	: 1447540	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 05/Jul/2024 09:56AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		LIPID PROFI	LE : BASIC		
CHOLESTEROL TOTA by CHOLESTEROL OX		129.61	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: SER by GLYCEROL PHOSP	RUM HATE OXIDASE (ENZYMATIC)	78.69	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0	
HDL CHOLESTEROL (by SELECTIVE INHIBIT		56.37	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0	
LDL CHOLESTEROL: S by CALCULATED, SPE		71.5	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0	
NON HDL CHOLESTE by CALCULATED, SPE		73.24	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0	
VLDL CHOLESTEROL: by CALCULATED, SPE		15.74	mg/dL	0.00 - 45.00	
TOTAL LIPIDS: SERUI by CALCULATED, SPE	M	351.91	mg/dL	350.00 - 700.00	
CHOLESTEROL/HDL I by CALCULATED, SPE		2.3	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0	
LDL/HDL RATIO: SER by CALCULATED, SPE		1.27	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SATINDER KAUR			
AGE/ GENDER	: 52 YRS/FEMALE	PATI	ENT ID	: 1447540
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012407050017
REFERRED BY	:	REGIS	STRATION DATE	: 05/Jul/2024 08:53 AM
BARCODE NO.	:01512556	COLL	ECTION DATE	: 05/Jul/2024 08:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 05/Jul/2024 09:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.4 ^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.

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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SATINDER KAUR AGE/ GENDER : 52 YRS/FEMALE **PATIENT ID** :1447540 **COLLECTED BY** :012407050017 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 05/Jul/2024 08:53 AM : **BARCODE NO.** :01512556 **COLLECTION DATE** :05/Jul/2024 08:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Jul/2024 09:56AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 2.42^H mg/dL by DIAZOTIZATION, SPECTROPHOTOMETRY **BILIRUBIN DIRECT (CONJUGATED): SERUM** 0.89^H mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY **BILIRUBIN INDIRECT (UNCONJUGATED): SERUM** mg/dL 1.53^H by CALCULATED, SPECTROPHOTOMETRY

by CALCOLATED, SPECTROPHOTOMETRY			
SGOT/AST: SERUM	27.72	U/L	7.00 - 45.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
SGPT/ALT: SERUM	17.29	U/L	0.00 - 49.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
AST/ALT RATIO: SERUM	1.6	RATIO	0.00 - 46.00
by CALCULATED, SPECTROPHOTOMETRY			
ALKALINE PHOSPHATASE: SERUM	50	U/L	40.0 - 150.0
by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL			
PROPANOL		11/1	0.00 55.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	35	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM	7.71	gm/dL	6.20 - 8.00
by BIURET, SPECTROPHOTOMETRY	7.71	gin/ de	0.20 - 0.00
ALBUMIN: SERUM	4.31	gm/dL	3.50 - 5.50
by BROMOCRESOL GREEN		0	
GLOBULIN: SERUM	3.4	gm/dL	2.30 - 3.50
by CALCULATED, SPECTROPHOTOMETRY			
A : G RATIO: SERUM	1.27	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

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

INCREASED:

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



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



Biological Reference interval

INFANT: 0.20 - 8.00

ADULT: 0.00 - 1.20

0.00 - 0.40

0.10 - 1.00

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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



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Test Name		Value	Unit	Biological Reference interval
	К	IDNEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		24.26	mg/dL	10.00 - 50.00
•	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		0.64	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		11.34	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	17.72	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE		27.01	DATIO	
UREA/CREATININE R by CALCULATED, SPE		37.91	RATIO	
URIC ACID: SERUM		5.7	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	EPEROXIDASE	9.02	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	CTROPHOTOMETRY	9.02	mg/uL	8.50 - 10.00
PHOSPHOROUS: SER		3.94	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		138.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM		4.33	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		103.65	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	106.3		
(eGFR): SERUM				
by CALCULATED				

by CALCULATED

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.



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REFERRED BY	· ·	REGISTRATION D			
BARCODE NO.	: 01512556	COLLECTION DAT			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	E : 05/Jul/2024 0	19:56AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT			
Test Name		Value Un	iit Biolog	gical Reference interval	
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatinine product tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo		e uropathy).		
 Reduced muscle m Certain drugs (e.g., INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy, DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin their 	(e.g. ureter colostomy) hass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. t0:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon tof inappropiate antidiuretic harmon tof inappropiate conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). top (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> DESCRIPTION	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain met asurement). GFR (mL/min/1.73m2)	a. thodologies,resulting in n ASSOCIATED FINDING	, 	
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Niherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Neclastic ketoacido Shabdomyolysis (r Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their STIMATED GLOMERI CKD STAGE G1	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon IO:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). Tapy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> Normal kidney function	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). tin blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain med asurement). ORFR (mL/min/1.73m2) on	a. thodologies,resulting in n ASSOCIATED FINDING No proteinuria	is	
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Neregnancy. DECREASED RATIO (< Negnancy. Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STADE	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absented of inappropiate antidiuretic harmone IO:1) WITH INCREASED CREATININE py (accelerates conversion of createleases muscle creatinine). who develop renal failure. :: sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). tin blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain med asurement). ORFR (mL/min/1.73m2) on	a. thodologies,resulting in n ASSOCIATED FINDING No proteinuria Presence of Protein	IS	
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Repeated dialysis (NIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin there STIMATED GLOMERI CKD STAGE G1 G2	(e.g. ureter colostomy) hass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. t0:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon to finappropiate antidiuretic harmon to finappropiate antidiuretic harmon to finappropiate creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). tin blood). he) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain meta asurement). 01 90 >90	a. thodologies,resulting in n ASSOCIATED FINDING No proteinuria	IS	
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Severe liver diseas Other causes of de Severe liver diseas Nother causes of de Severe liver diseas Severe liver Severe liver dise Severe liver diseas Severe liver	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absented of inappropiate antidiuretic harmone IO:1) WITH INCREASED CREATININE py (accelerates conversion of createleases muscle creatinine). who develop renal failure. :: sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFF	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). tin blood). he) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain meta asurement). 0n >90 60 - 89	a. thodologies,resulting in n ASSOCIATED FINDING No proteinuria Presence of Protein	IS	
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ther ESTIMATED GLOMERI CKD STAGE G1 G2	(e.g. ureter colostomy) hass (subnormal creatinine product tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. t0:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon to finappropiate antidiuretic harmon to finappropiate antidiuretic harmon to finappropiate creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). to apy (interferes with creatinine me JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). tin blood). he) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain meta asurement). m >90 2 60 -89 GFR 30-59	a. thodologies,resulting in n ASSOCIATED FINDING No proteinuria Presence of Protein	IS	

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	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) M	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. SATINDER KAUR		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1447540
COLLECTED BY	:	REG. NO./LAB NO.	: 012407050017
REFERRED BY	:	REGISTRATION DATE	: 05/Jul/2024 08:53 AM
BARCODE NO.	:01512556	COLLECTION DATE	: 05/Jul/2024 08:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 05/Jul/2024 09:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 05/Jul/2024 10:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name		Value ENDOCRINO		Biological Reference interval
Test Name			LOGY	Biological Reference interval
TRIIODOTHYRONIN		ENDOCRINO THYROID FUNCTION 0.985	LOGY	Biological Reference interval
TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA:	ENDOCRINO THYROID FUNCTION 0.985 SSAY) 7	LOGY TEST: TOTAL	
TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULA	e (T3): serum <i>nescent microparticle immunoa</i> : RUM	ENDOCRINO THYROID FUNCTION 0.985 SSAY) 7	LOGY TEST: TOTAL ng/mL	0.35 - 1.93

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TS	
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		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	
	RECON	IMENDATIONS OF TSH L	EVELS 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, idonie containing agents & dopamine antagonist.

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester



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	Dr. Vinay Cho MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SATINDER KAUR : 52 YRS/FEMALE : : 01512556 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REGIS COLLE REPOI	NT ID 10./LAB NO. 17RATION DATE 17CTION DATE 17TING DATE	: 1447540 : 012407050017 : 05/Jul/2024 08:53 AM : 05/Jul/2024 08:59AM : 05/Jul/2024 10:02AM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
		OUTINE & MICROSC		
				non
	ON ANCE SPECTROPHOTOMETRY	10	ml	
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW CLEAR
SPECIFIC GRAVITY	ance spectrophotometry ance spectrophotometry T ON	1.01		1.002 - 1.030
REACTION	ANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
рН	ANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	ANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	ANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECTA ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	Negative NEGATIVE (-ve)		NEGATIVE (-ve) NEGATIVE (-ve)
by DIP STICK/REFLECTA MICROSCOPIC EXAMI	ANCE SPECTROPHOTOMETRY NATION			



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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (I	RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		1-2	/HPF	0 - 5	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS		4-5	/HPF	ABSENT	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)	

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

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT



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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT