



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. NARINDER KAUR			
AGE/ GENDER	: 65 YRS/FEMALE		PATIENT ID	: 1731150
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501220024
REFERRED BY	:		REGISTRATION DATE	: 22/Jan/2025 10:51 AM
BARCODE NO. CLIENT CODE.	: 01524238 : KOS DIAGNOSTIC LAB		COLLECTION DATE REPORTING DATE	: 22/Jan/2025 10:53AM : 22/Jan/2025 11:16AM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA		KEPUKIING DATE	: 22/Jan/2023 11:10AM
	+ 00 10/ 1, 110110 <u>20</u> 011 1001 <u>0</u> , 111 <u>0</u>			
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS			LLNESS PANEL: 1.2 DOD COUNT (CBC)	
HAEMOGLOBIN (HE	3)	9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (H	RBC) COUNT	3.32 ^L	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOLU	DCUSING, ELECTRICAL IMPEDENCE		%	37.0 - 50.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER	28.3 ^L		
MEAN CORPUSCULA	AR VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	85.3	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	27.2	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	31.9 ^L	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	15.1	%	11.00 - 16.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	48.2	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		25.69	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED		38.93	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL				
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) By SF CUBE & MICROSCOPY	8630	/cmm	4000 - 11000
NUCLEATED RED B	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	T HEMATOLOGY ANALYZER			





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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NARINDER KAUR **AGE/ GENDER** : 65 YRS/FEMALE **PATIENT ID** :1731150 **COLLECTED BY** : SURJESH :012501220024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Jan/2025 10:51 AM : **BARCODE NO.** :01524238 **COLLECTION DATE** : 22/Jan/2025 10:53AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Jan/2025 11:16AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 75^H % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 15^L % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 6473 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1294 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 345 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 518 /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 254000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 11 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 92000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 36.111.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.3% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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: 6349/1, NICHOLSON ROAD, AMBALA CAN	JTT	
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	MD (Pathology & Microbiology Chairman & Consultant Pathol : Mrs. NARINDER KAUR : 65 YRS/FEMALE : SURJESH : : 01524238 : KOS DIAGNOSTIC LAB	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mrs. NARINDER KAUR : 65 YRS/FEMALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01524238 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
FRVTHROCVTF SF	ERYTH DIMENTATION RATE (ESR)	ROCYTE SEDIME 30 ^h	NTATION RATE (mm/1st	
(polycythaemia), sign as sickle cells in sick 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 dex	W ESR in with conditions that inhibit the nificantly high white blood cell of le cell anaemia) also lower the re protein (C-RP) are both marke es not change as rapidly as does I by as many other factors as is E ed, it is typically a result of two live a higher ESR, and menstruati	count (leucocytosis), ESR. rs of inflammation. CRP, either at the sta SR, making it a better types of proteins, glo on and pregnancy car	and some protein abno rt of inflammation or as marker of inflammatior bulins or fibrinogen. cause temporary eleva	1.





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Test Name		Value	Unit	Biological Reference interval
Test Name	CLINI	CAL CHEMIS	Unit STRY/BIOCHEMIST E FASTING (F)	
GLUCOSE FASTING by GLUCOSE OXIDAS	e (F): PLASMA E - PEROXIDASE (GOD-POD)	87.84	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





AGE/ GENDER : (COLLECTED BY : : REFERRED BY : BARCODE NO. : (Mrs. NARINDER KAUR 65 YRS/FEMALE SURJESH			
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Test Name		Value	Unit	Biological Reference interval
		I IDIN PRO)FILE : BASIC	
CHOLESTEROL TOTAL	· SEDIM	163.64	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDA		103.04	ilig/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU	JM	137.81	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHAT				BORDERLINE HIGH: 150.0 -
				199.0 IUCU: 200.0 400.0
				HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I	DIRECT): SERUM	35.46	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION				BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S	ERUM	100.62	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTR	ROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0
		100.10	()7	VERY HIGH: $> OR = 190.0$
NON HDL CHOLESTER by CALCULATED, SPECTR		128.18	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:		27.56	mg/dL	0.00 - 45.00
by CALCULATED, SPECTR TOTAL LIPIDS: SERUM		465.09	The second	350.00 - 700.00
by CALCULATED, SPECTR		405.09	mg/dL	330.00 - 700.00
CHOLESTEROL/HDL R		4.61 ^H	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTF	(UPHUTUMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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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	
LDL/HDL RATIO: S by CALCULATED, SPE		2.84	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		3.89	RATIO	3.00 - 5.00	

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN DIREC	:: SERUM <i>pectrophotometry</i> Γ (CONJUGATED): SERUM	FUNCTION 0.41 0.11	TEST (COMPLETE) mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
by DIAZO MODIFIED, BILIRUBIN INDIRE	SPECTROPHOTOMÉTRY SCT (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		17.7	U/L	7.00 - 45.00
SGPT/ALT: SERUN by IFCC, WITHOUT P	I (RIDOXAL PHOSPHATE	17.6	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPI	ERUM ECTROPHOTOMETRY	1.01	RATIO	0.00 - 46.00
ALKALINE PHOSP by para nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	59.67	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	15.37	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.16	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.3	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		2.86	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M	1.5	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Reference 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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INTERPRETATION





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Test Name		Value Unit	Biological Reference interval

DECREASED:

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

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

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	EY FUNCTION	I TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	30.04	mg/dL	10.00 - 50.00
CREATININE: SER	UM	1.11	mg/dL	0.40 - 1.20
BLOOD UREA NITH	ROGEN (BUN): SERUM	14.04	mg/dL	7.0 - 25.0
-	ROGEN (BUN)/CREATININE	12.65	RATIO	10.0 - 20.0
by CALCULATED, SPI UREA/CREATININ		27.06	RATIO	
URIC ACID: SERUM		5.14	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		9.67	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SI		3.86	mg/dL	2.30 - 4.70
ELECTROLYTES	site, of contornor omericin			
SODIUM: SERUM	/E ELECTRODE)	144	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.31	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIV	1	108	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by calculated <u>INTERPRETATION:</u>	IERULAR FILTERATION RATE	55.2		

<u>INTERPRETATION:</u> To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	1E : 22/Jan/2025 02:45PM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Fest Name		Value U	nit Biological Reference inter	val
DECREASED RATIO (<	superimposed on renal disease. 10:1) WITH DECREASED BUN :	pre than creatinine) (e.g. obstructi	ve uropathy).	
DECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Cother causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Rhabdomyolysis (r Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin the	superimposed on renal disease. 10:1) WITH DECREASED BUN : Tosis. Ind starvation. e. ecreased urea synthesis. (urea rather than creatinine diffus imonemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE apy (accelerates conversion of creatinine). who develop renal failure. D: bis (acetoacetate causes false inclusion increased BUN/creatinine ratio). rapy (interferes with creatinine mediated JLAR FILTERATION RATE: 	es out of extracellular fluid). t in blood). ne) due to tubular secretion of urd time to creatinine). rease in creatinine with certain me easurement).		dratic
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin the STIMATED GLOMERI CKD STAGE	superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. Ind starvation. e. creased urea synthesis. (urea rather than creatinine diffus imonemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE apy (accelerates conversion of creatinine). who develop renal failure. b: virtual distribution of creatinine). who develop renal failure. creased BUN/creatinine ratio). rapy (interferes with creatinine medulation). JLAR FILTERATION RATE:	es out of extracellular fluid). t in blood). ne) due to tubular secretion of urd time to creatinine). rease in creatinine with certain me easurement). GFR (mL/min/1.73m2) on 90	ea. ethodologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS	dratic
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients DAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERI CKD STAGE G1 G2	superimposed on renal disease. 10:1) WITH DECREASED BUN : Tosis. Ind starvation. e. Ecreased urea synthesis. (urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE Papy (accelerates conversion of creat releases muscle creatinine). Who develop renal failure. D: Distict action creatinine ratio). Trapy (interferes with creatinine me DIAR FILTERATION RATE: DESCRIPTION Normal kidney functi Kidney damage with normal or high GFR	es out of extracellular fluid). t in blood). ne) due to tubular secretion of urd time to creatinine). rease in creatinine with certain me easurement). GFR (mL/min/1.73m2) on >90 >90	ea. ethodologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS No proteinuria	dratio
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERI G1 G2 G3a	superimposed on renal disease. 10:1) WITH DECREASED BUN : Tosis. Ind starvation. e. Ecreased urea synthesis. (urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE Topy (accelerates conversion of creates teleases muscle creatinine). Who develop renal failure. D: Topy (interferes with creatinine metoric failure). Topy (interferes with creatinine failure). Topy (interferes with creatinine). Topy (interferes with creatinine). Topy (interferes with creatinine). Topy (interferes with creati	t in blood). ne) due to tubular secretion of ura- tine to creatinine). rease in creatinine with certain materials assurement).	ea. ethodologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	drati
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients JAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERI G1 G2 G3a G3a G3b	superimposed on renal disease. 10:1) WITH DECREASED BUN : Tosis. Ind starvation. e. Ecreased urea synthesis. (urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE Topy (accelerates conversion of creates Teleases muscle creatinine). Who develop renal failure. D: Topy (interferes with creatinine metoreased BUN/creatinine ratio). Trapy (interferes with creatinine metoreased BUN/creatinine ratio). Topy (interferes with creatinine	t in blood). ne) due to tubular secretion of urd t in blood). ne) due to tubular secretion of urd time to creatinine). rease in creatinine with certain me easurement).	ea. ethodologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	drati
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients DAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERI G1 G2 G3a	superimposed on renal disease. 10:1) WITH DECREASED BUN : Tosis. Ind starvation. e. Ecreased urea synthesis. (urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE Topy (accelerates conversion of creates teleases muscle creatinine). Who develop renal failure. D: Topy (interferes with creatinine metoric failure). Topy (interferes with creatinine failure). Topy (interferes with creatinine). Topy (interferes with creatinine). Topy (interferes with creatinine). Topy (interferes with creati	t in blood). ne) due to tubular secretion of urd t in blood). ne) due to tubular secretion of urd time to creatinine). rease in creatinine with certain me easurement).	ea. ethodologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	drati





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









	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. NARINDER KAUR		
AGE/ GENDER	: 65 YRS/FEMALE	PATIENT ID	: 1731150
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501220024
REFERRED BY	:	REGISTRATION DATE	: 22/Jan/2025 10:51 AM
BARCODE NO.	: 01524238	COLLECTION DATE	: 22/Jan/2025 10:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Jan/2025 02:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mrs. NARINDER KAUR					
AGE/ GENDER	: 65 YRS/FEMALE	PA	TIENT ID	: 1731150		
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012501220024		
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BARCODE NO.	: 01524238	COL	LECTION DATE	: 22/Jan/2025 10:53AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 22/Jan/2025 01:16PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT				
	, , , , , , , , , , , , , , , , , , , ,					
Test Name		Value	Unit	Biological Reference in	terval	
		0.927	N TEST: TOTAL ng/mL	0.35 - 1.93		
THYROXINE (T4): S	SERUM	8.92	µgm/dL	4.87 - 12.60		
	IFOOFNIT MIODODADTIOL F IMMUNIOA00					
THYROID STIMULA by CMIA (CHEMILUMIN	NESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASS	1 3.808	µIU/mL	0.35 - 5.50		
THYROID STIMULA	ATING HORMONE (TSH): SERUM	1 3.808	µIU/mL	0.35 - 5.50		
THYROID STIMULA by CMIA (CHEMILUMI 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	ATING HORMONE (TSH): SERUN VESCENT MICROPARTICLE IMMUNOASS TRASENSITIVE	A 3.808 AY) etween 2-4 a.m and at a stimulates the product	n minimum between 6-10 p ion and secretion of the m	n. The variation is of the order of 50%.Hence t etabolically active hormones, thyroxine (T4)a		
THYROID STIMULA by CMIA (CHEMILUMI 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	ATING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASS RASENSITIVE circadian variation, reaching peak levels be measured serum TSH concentrations. TSH illure at any level of regulation of the hypo	A 3.808 AY) etween 2-4 a.m and at a stimulates the product othalamic-pituitary-thy	n minimum between 6-10 p ion and secretion of the m	n. The variation is of the order of 50%.Hence t etabolically active hormones, thyroxine (T4)a		
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triidothyronine (T3).Fai overproduction(hyperthy CLINICAL CONDITION Primary Hypothyroidis	ATING HORMONE (TSH): SERUN VESCENT MICROPARTICLE IMMUNOASS TRASENSITIVE circadian variation, reaching peak levels bi measured serum TSH concentrations. TSH illure at any level of regulation of the hypo yroidism) of T4 and/or T3. T3 m: Reduced	A 3.808 AY) etween 2-4 a.m and at a stimulates the product othalamic-pituitary-thy	n minimum between 6-10 p ion and secretion of the m roid axis will result in eithe T4 educed	m. The variation is of the order of 50%.Hence t etabolically active hormones, thyroxine (T4)a er underproduction (hypothyroidism) or TSH ncreased (Significantly)		
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai overproduction(hyperthy CLINICAL CONDITION	ATING HORMONE (TSH): SERUN VESCENT MICROPARTICLE IMMUNOASS TRASENSITIVE circadian variation, reaching peak levels bi measured serum TSH concentrations. TSH illure at any level of regulation of the hypo yroidism) of T4 and/or T3. T3 m: Reduced	A 3.808 AY) etween 2-4 a.m and at a stimulates the product othalamic-pituitary-thy	n minimum between 6-10 p ion and secretion of the m roid axis will result in eithe	m. The variation is of the order of 50%.Hence t etabolically active hormones, thyroxine (T4)a er underproduction (hypothyroidism) or TSH		

LIMITATIONS:-

Subclinical Hyperthyroidism:

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

Normal or High Normal

Reduced

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

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

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

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

Normal or High Normal





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. NARINDER KAUR		
AGE/ GENDER	: 65 YRS/FEMALE	PATIENT ID	: 1731150
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501220024
REFERRED BY	:	REGISTRATION DATE	: 22/Jan/2025 10:51 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

		value	UIII		biological Reference Interval
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	SNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECOM 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREC 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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







	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. NARINDER KAUR			
AGE/ GENDER	: 65 YRS/FEMALE	PATIE	NT ID	: 1731150
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REFERRED BY	:		TRATION DATE	: 22/Jan/2025 10:51 AM
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CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A		RTING DATE	: 22/Jan/2025 12:01PM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATI	HOLOGY	
	URINE RO	UTINE & MICROSC	OPIC EXAMINA	ATION
PHYSICAL EXAMI	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	114.73		CLEAD
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5
BILIRUBIN	TANGE SPECINOPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Positive		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EX			/HPF	0 - 3
RED BLOOD CELLS	(11005)	NEGATIVE (-ve)	/ ПГГ	0-3



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NAME



HEALTHCARE &

Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mrs. NARINDER KAUR AGE/ GENDER : 65 YRS/FEMALE **PATIENT ID** :1731150 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012501220024 **REFERRED BY REGISTRATION DATE** : 22/Jan/2025 10:51 AM : **COLLECTION DATE BARCODE NO.** :01524238 : 22/Jan/2025 10:53AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Jan/2025 12:01PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Unit	Biological Reference interval
/HPF	0 - 5
/HPF	ABSENT
	NEGATIVE (-ve)
	ABSENT

End Of Report



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

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