



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. DARSHNA RANI			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1667865
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411110025
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 11/Nov/2024 09:16 AM
BARCODE NO.	: 01520553		COLLECTION DATE	: 11/Nov/2024 09:28AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Nov/2024 09:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTT		
Fest Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WE	LLNESS PANEL: 1.	2
	COMP	PLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
IAEMOGLOBIN (HI	3)	12.3	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (1	RBC) COUNT	4.79	Millions	/cmm 3.50 - 5.00
by HYDRO DYNAMIC F	DCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLU	ME (PCV) jtomated hematology analyzer	39.5	%	37.0 - 50.0
MEAN CORPUSCULA	AR VOLUME (MCV)	82.4	fL	80.0 - 100.0
AEAN CORPUSCUL	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	25.8 <sup>L</sup>	pg	27.0 - 34.0
	JTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	31.2 <sup>L</sup>	g/dL	32.0 - 36.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER		Ű	
	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	15.3	%	11.00 - 16.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD)	47.2	fL	35.0 - 56.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER	17.2	RATIO	BETA THALASSEMIA TRAIT: ·
by CALCULATED				13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND	EX	26.44	RATIO	BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CEI				
FOTAL LEUCOCYTE	COUNT (TLC) BY SF CUBE & MICROSCOPY	7860	/cmm	4000 - 11000
	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	T HEMATOLOGY ANALYZER			
by AUTOMATED 6 PAR	LOOD CELLS (nRBCS) %	NIL	%	< 10 %





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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. DARSHNA RANI AGE/ GENDER : 62 YRS/FEMALE **PATIENT ID** :1667865 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411110025 **REFERRED BY REGISTRATION DATE** :11/Nov/2024 09:16 AM : **BARCODE NO.** :01520553 **COLLECTION DATE** :11/Nov/2024 09:28AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 11/Nov/2024 09:55AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 59 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 27 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 9 % 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 4637 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2122 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 393 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 707 /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 279000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.36 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 129000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 46.2<sup>H</sup> 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.8% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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







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Test Name		/alue Unit	Biological Reference interval





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

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 care@koshealthcare.com
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
by RED CELL AGGREC	ERYTHRO DIMENTATION RATE (ESR) SATION BY CAPILLARY PHOTOMETRY	OCYTE SEDIMEN 23 <sup>H</sup>	<b>FATION RATE (</b> mm/1st	
by RED CELL AGGREC NTERPRETATION: . ESR is a non-specifi nmune disease, but . An ESR can be affect s C-reactive protein . This test may also I ystemic lupus erythe ONDITION WITH LOV . low ESR can be seed polycythaemia). sign	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY c test because an elevated result does not tell the health practition cted by other conditions besides i be used to monitor disease activity ematosus V ESR n with conditions that inhibit the	23 <sup>H</sup> often indicates the pi ner exactly where the inflammation. For this ty and response to the normal sedimentation unt (leucocytosis) , an	mm/1st resence of inflammat inflammation is in the reason, the ESR is ty grapy in both of the a	hr 0 - 20





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTR GLUCOSE FA		'nY
GLUCOSE FASTING by glucose oxidas	E (F): PLASMA E - PEROXIDASE (GOD-POD)	118.53 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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

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Test Name		Value	Unit	<b>Biological Reference interval</b>
		I IPIN PROI	FILE : BASIC	
CHOLESTEROL TOTA	I · SFRUM	185.79	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXID		105.75	ilig/ uL	BORDERLINE HIGH: 200.0 -
				HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SEF		97.91	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHA	ATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL ( by SELECTIVE INHIBITION		38.55	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
by delet internation	•			60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: by CALCULATED, SPECT		127.66	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0
<i>by 0,12002,1120, 01 201</i>				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE	ROL: SERUM	147.24 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECT	ROPHOTOMETRY		Ũ	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
		10.50	/ 17	VERY HIGH: $> OR = 220.0$
LDL CHOLESTEROL by CALCULATED, SPECT		19.58	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	469.49	mg/dL	350.00 - 700.00
by CALCULATED, SPECT CHOLESTEROL/HDL		4.82 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECT		4.04	imitio	AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
				пі <b>дп кізк:</b> > 11.0

65

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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) nsultant Patholog		(Pathology)
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Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		3.31 <sup>H</sup>	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	2.54 <sup>L</sup>	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





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

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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN DIRECT	: SERUM <i>pectrophotometry</i> Γ (CONJUGATED): SERUM	<b>FUNCTION</b> 0.52 0.13	TEST (COMPLETE) mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
BILIRUBIN INDIRE	SPECTROPHOTOMETRY ECT (UNCONJUGATED): SERUM	0.39	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	ECTROPHOTOMETRY [ /RIDOXAL PHOSPHATE	19.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM		17.7	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.08	RATIO	0.00 - 46.00
ALKALINE PHOSPI by Para Nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	211.99 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRON	L TRANSFERASE (GGT): SERUM PHTOMETRY	7 <b>8</b> .35 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.12	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.76	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		3.36	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.12	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

# **INCREASED:**

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





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INTERPRETATION





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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
	KIDNE	Y FUNCTION TE	ST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	47.47	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	0.92	mg/dL	0.40 - 1.20
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	22.18	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	24.11 <sup>H</sup>	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	51.6	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		6.23	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.82	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe <b>ELECTROLYTES</b>	ERUM DATE, SPECTROPHOTOMETRY	3.66	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIV		143.6	mmol/L	135.0 - 150.0
POTASSIUM: SERUE by ISE (ION SELECTIV	M	4.02	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	1	107.7	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	70.4		

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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CLIENT ADDRESS		HOLSON ROAD, AM		REPORTING DAT	. <b>E</b> .	11/100/2024	11.21AW		
Test Name			Value	Th	nit	Pielo	minal Dafa	nonco inte	
.cst manne			value	U	int	DIUIO	gical Refe	i ente mite	
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< <sup>7</sup>	(e.g. ureter colo ass (subnormal tetracycline, glu <b>D:1) WITH ELEV</b> (BUN rises disp superimposed o <b>0:1) WITH DECR</b>	creatinine production accorticoids) ATED CREATININE LE proportionately more pron renal disease.	/ELS:	ne) (e.g. obstructiv	re uropathy	l.			
	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed o <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re- sis (acetoacetat creased BUN/cr apy (interferes	creatinine productio accorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : attivitually absent i antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increation. with creatinine meas	<b>/ELS:</b> e than creatini out of extrac n blood). e) due to tubu me to creatinin ese in creatini surement).	ellular fluid). lar secretion of ure ne). ne with certain me	a. thodologie:			o when deh	ıydrat
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 2. Postrenal azotemia 3. Prerenal azotemia 3. Prerenal azotemia 4. Composition diet ar 5. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 6. SIADH (syndrome of 6. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (r 6. Muscular patients 7. NAPPROPIATE RATIO 7. Diabetic ketoacido 7. Cephalosporin ther 7. STIMATED GLOMERL	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed o <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re- sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine productio ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : a trually absent i antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increation e causes false increation with creatinine meating.	/ELS: than creatini out of extrac n blood). due to tubu ne to creatinir ase in creatini surement). GFR ( m	ellular fluid). lar secretion of ure ne).	a. thodologie:	s,resulting in no		o when deh	nydrat
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Inherited hyperam     SIADH (syndrome of     Pregnancy.     Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     Cephalosporin ther     STIMATED GLOMERL     CKD STAGE	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate of <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re- sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine productio ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : attivitually absent i antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increation creatinine ratio). with creatinine mease N RATE: DESCRIPTION mal kidney function dney damage with	/ELS: than creatini out of extrac n blood). due to tubu ne to creatinir ase in creatini surement). GFR ( m	ellular fluid). lar secretion of ure ne). ne with certain me nL/min/1.73m2)	a. thodologie: ASSOC	s,resulting in no IATED FINDING proteinuria nce of Protein ,	<u>s</u>	o when deh	nydrat
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     CEMPATED GLOMERL     CKD STAGE     G1     G2	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re- sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Nor K	creatinine productio ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increati creatinine ratio). with creatinine meat N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR	/ELS: than creatini out of extrac n blood). due to tubu ne to creatinir ase in creatini surement). GFR ( m	ellular fluid). lar secretion of ure ne). ne with certain me nL/min/1.73m2) >90 >90	a. thodologie: ASSOC	s,resulting in no IATED FINDING	<u>s</u>	o when deh	nydrat
7. Urine reabsorption     8. Reduced muscle m     9. Certain drugs (e.g.     NCREASED RATIO (>2     1. Postrenal azotemia     2. Prerenal azotemia     2. Prerenal azotemia     2. Cow protein diet ar     3. Severe liver disease     4. Other causes of de     5. Repeated dialysis (     5. Inherited hyperam     7. SIADH (syndrome of     8. Pregnancy.     7. Phenacimide thera     7. Rhabdomyolysis (r     7. Nabdomyolysis (r     7. Diabetic ketoacido     fould produce an in     7. Cephalosporin ther     5. STIMATED GLOMERL     61     62	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATION NON K NON K NON K	creatinine productio accorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : The creatinine diffuses a is virtually absent is antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increati creatinine ratio). with creatinine mease N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR_ ild decrease in GFR	/ELS: e than creatini out of extrac n blood). e) due to tubul me to creatinin extrement). GFR (n	ellular fluid). lar secretion of ure ne). ne with certain me nL/min/1.73m2) >90 >90 >90	a. thodologie: ASSOC	s,resulting in no IATED FINDING proteinuria nce of Protein ,	<u>s</u>	o when deh	nydrat
G1 G2	(e.g. ureter cold ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Non K Non K M	creatinine productio ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. e causes false increati creatinine ratio). with creatinine meat N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR	/ELS: e than creatini out of extrac n blood). e) due to tubul me to creatinin extrement). GFR (n	ellular fluid). lar secretion of ure ne). ne with certain me nL/min/1.73m2) >90 >90	a. thodologie: ASSOC	s,resulting in no IATED FINDING proteinuria nce of Protein ,	<u>s</u>	o when deh	nydrat





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









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A CO 40 /1 NICHOLCON DO AD AN		
: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 11/Nov/2024 11:21AM
: 01520553	COLLECTION DATE	: 11/Nov/2024 09:28AM
:	<b>REGISTRATION DATE</b>	: 11/Nov/2024 09:16 AM
: SURJESH	<b>REG. NO./LAB NO.</b>	: 012411110025
: 62 YRS/FEMALE	PATIENT ID	: 1667865
: Mrs. DARSHNA RANI		
		0 (Pathology) It Pathologist
		n Chopra
	MD (Pathology & M Chairman & Consul : Mrs. DARSHNA RANI : 62 YRS/FEMALE : SURJESH : : 01520553	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : 62 YRS/FEMALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01520553 COLLECTION DATE

COMMENTS:

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

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

ADVICE:

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



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay Cł MD (Pathology & Chairman & Cor		M	m <b>Chopra</b> D (Pathology) ht Pathologist	
NAME	: Mrs. DARSHNA RANI				
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1667865	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411110025	
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BARCODE NO.	: 01520553		COLLECTION DATE	: 11/Nov/2024 09:28AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 11/Nov/2024 11:17AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	г		
Test Name		Value	Unit	Biological Reference in	terval
TRIIODOTHYRONII		<b>IYROID FUN</b> 0.923	<b>CTION TEST: TOTAL</b> ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMIN	ESCENT MICROPARTICLE IMMUNOA	,	0		
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE IMMUNOA	8.12	µgm/dl	4.87 - 12.60	
THYROID STIMULA by CMIA (CHEMILUMIN	TING HORMONE (TSH): SER	UM 1.804	µIU/mI	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
TSH levels are subject to o day has influence on the l triiodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the p	roduction and secretion of the	pm. The variation is of the order of 50%.Hence a metabolically active hormones, thyroxine (T4). her underproduction (hypothyroidism) or	
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis				Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lov	v Normal	Normal or Low Normal	High	
oubennieurryperryren				3	

#### 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) Age Refferance Range (ng/mL)		THYROX	INE (T4)	THYROID STIMULATING HORMONE (TSI		
		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





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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. DARSHNA RANI		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1667865
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411110025
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 11/Nov/2024 09:16 AM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Nov/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

Test Name		Value	Value Unit		Biological Reference interva	
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	
	RECO	VIMENDATIONS OF TSH L	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 Cho MD (Pathology & Chairman & Const	Microbiology)	Dr. Yugam MD O & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 11/Nov/2024 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		CLINICAL PATHO	LOGY	
	URINE ROU	UTINE & MICROSCOP		ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	>=1.030		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC SUGAR	TANCE SPECTROPHOTOMETRY	-		
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negative		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 ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EXA			(1	
RED BLOOD CELLS	(RBUS)	NEGATIVE (-ve)	/HPF	0 - 3



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



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

NAME	: Mrs. DARSHNA RANI		
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Test Name	Value	Unit	Biological Reference interval

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\*\* End Of Report \*\*\*



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

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

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