



	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant		Dr. Yugam MD (F CEO & Consultant P	Pathology)
NAME	: Mrs. OSHIN			
AGE/ GENDER	: 31 YRS/FEMALE	PAT	FIENT ID	: 1810799
COLLECTED BY	: SURJESH	REC	G. NO./LAB NO.	: 012503290043
REFERRED BY	:	REC	GISTRATION DATE	: 29/Mar/2025 12:09 PM
BARCODE NO.	: 01527989	COI	LECTION DATE	: 29/Mar/2025 12:17PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	PORTING DATE	: 29/Mar/2025 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
			NESS PANEL: 1.	0
RED BLOOD CELI	COMPLI LS (RBCS) COUNT AND INDICES	ETE BLOO	D COUNT (CBC)	
HAEMOGLOBIN (H		11.6 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC			N(:11: /-	2.50 5.00
RED BLOOD CELL by HYDRO DYNAMIC F	(RBC) COUN I OCUSING, ELECTRICAL IMPEDENCE	5.04 ^H	Millions/c	mm 3.50 - 5.00
PACKED CELL VOI		36.9 ^L	%	37.0 - 50.0
•	UTOMATED HEMATOLOGY ANALYZER LAR VOLUME (MCV)	73.2 ^L	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	LAR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	23.1 ^L	pg	27.0 - 34.0
MEAN CORPUSCU	LAR HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL	32.0 - 36.0
	utomated hematology analyzer BUTION WIDTH (RDW-CV)	16	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER	10	70	11.00 - 10.00
	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	44.2	fL	35.0 - 56.0
MENTZERS INDEX		14.52	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN	DEX	73.91	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 65.0
				IRON DEFICIENCY ANEMIA: 65.0
WHITE BLOOD C	ELLS (WBCS)			0010
TOTAL LEUCOCV	TE COUNT (TLC)	8140	/cmm	4000 - 11000
		NIL		0.00 - 20.00
by FLOW CYTOMETRY	DLOOD CELLS (IIKDCS)			
by FLOW CYTOMETRY NUCLEATED RED by AUTOMATED 6 PAF	BLOOD CELLS (IRBCS) RT HEMATOLOGY ANALYZER BLOOD CELLS (IRBCS) %	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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•	AUTOMATED HEMATOLOGY ANALYZEF	7		
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	65	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	23	%	20 - 40
EOSINOPHILS		5	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	,	70	2 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY COCYTES (WBC) COUNT			
ABSOLUTE NEUTI	ROPHIL COUNT	5291	/cmm	2000 - 7500
by FLOW CYTOMETR ABSOLUTE LYMPI	Y BY SF CUBE & MICROSCOPY	1872	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	1672	/ciiiiii	800 - 4900
ABSOLUTE EOSIN		407	/cmm	40 - 440
by FLOW CYTOMETR ABSOLUTE MONC	Y BY SF CUBE & MICROSCOPY	570	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	570	/cmm	00 - 000
	OTHER PLATELET PREDICTI	VE MARKERS.		
PLATELET COUN	T (PLT) FOCUSING, ELECTRICAL IMPEDENCE	318000	/cmm	150000 - 450000
PLATELETCRIT (F		0.39 ^H	%	0.10 - 0.36
MEAN PLATELET		12	fL	6.50 - 12.0
PLATELET LARGE	E CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	135000 ^H	/cmm	30000 - 90000
PLATELET LARGE	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	42.6	%	11.0 - 45.0
PLATELET DISTR	IBUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.7	%	15.0 - 17.0
	JCTED ON EDTA WHOLE BLOOD			

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Test Name	Value	Unit	Biological Reference interval





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CLIENT ADDRESS		CHOLSON ROAD, AM	BALA CANT		
Test Name			Value	Unit	Biological Reference interval
		ERYTHROC	YTE SED	IMENTATION RATI	E (ESR)
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha	GATION BY CAPIL ic test because does not tell th cted by other c be used to more matosus N ESR n with condition ificantly high v e cell anaemia) e protein (C-RP) is not change at by as many oth ed, it is typicall ve a higher ESR ran, methyldog	ARY PHOTOMETRY an elevated result of be health practitioner onditions besides infl attor disease activity a ns that inhibit the no vhite blood cell court also lower the ESR. are both markers of s rapidly as does CRP, her factors as is ESR, n y a result of two type , and menstruation a ba, oral contraceptive	exactly whe lammation. F and response ormal sedime t (leucocytos , either at th naking it a be so of proteins nd pregnanc	The the inflammation is in the for this reason, the ESR is the to therapy in both of the entation of red blood cells, sis), and some protein abnometer marker of inflammation or etter marker of inflammations, globulins or fibrinogen.	ation associated with infection, cancer and auto- he body or what is causing it. ypically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count formalities. Some changes in red cell shape (such as it resolves. on.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Test Name			Value	Unit	Biological Reference interval
by GLUCOSE OXIDAS	E - PEROXIDASE (GC	D-POD)			PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
		TES ASSOCIAT			
IN ACCORDANCE WIT 1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	lucose level below lucose level betwe ion of 75 gms of glu lucose level of abo	100 mg/dl is c en 100 - 125 n ucose) is recom ve 125 mg/dl i	ng/dl is considere mended for all s s highly suggesti	ed as glucose intolerant or such patients.	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.
IN ACCORDANCE WIT 1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	lucose level below lucose level betwe ion of 75 gms of glu lucose level of abo	100 mg/dl is c en 100 - 125 n ucose) is recom ve 125 mg/dl i	ng/dl is considere mended for all s s highly suggesti	ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
test (after consumpti 3. A fasting plasma g	lucose level below lucose level betwe ion of 75 gms of glu lucose level of abo	100 mg/dl is c en 100 - 125 n ucose) is recom ve 125 mg/dl i	ng/dl is considere mended for all s s highly suggesti	ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
IN ACCORDANCE WIT 1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	lucose level below lucose level betwe ion of 75 gms of glu lucose level of abo	100 mg/dl is c en 100 - 125 n ucose) is recom ve 125 mg/dl i	ng/dl is considere mended for all s s highly suggesti	ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for al
IN ACCORDANCE WIT 1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	lucose level below lucose level betwe ion of 75 gms of glu lucose level of abo	100 mg/dl is c en 100 - 125 n ucose) is recom ve 125 mg/dl i	ng/dl is considere mended for all s s highly suggesti	ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a

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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OXI		168.29	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S. by GLYCEROL PHOSPF	ERUM HATE OXIDASE (ENZYMATIC)	84.31	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBITIC	L (DIRECT): SERUM DN	45	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPEC		106.43	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 CHOLEST by CALCULATED, SPEC		123.29	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 CHOLESTER		16.86	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPEC	RUM	420.89	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPEC	L RATIO: SERUM	3.74	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
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DR.YUGAM CHOPRA



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	· · · · ·	Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		2.37	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	1.87 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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CLIENI ADDRESS	. 0349/1, MCHOLSON KOAD, AMB	OALA CANTI		
Test Name		Value	Unit	Biological Reference interva
	LIVER F	UNCTIO	N TEST (COMPLETE	
BILIRUBIN TOTAL: by DIAZOTIZATION, SPI	SERUM	0.34	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT	C (CONJUGATED): SERUM	0.09	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	0.25	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYF		18.96	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYF		17.5	U/L	0.00 - 49.00
AST/ALT RATIO: SE		1.08	RATIO	0.00 - 46.00
ALKALINE PHOSPH by PARA NITROPHENY PROPANOL	IATASE: SERUM 'L PHOSPHATASE BY AMINO METHYL	108.82	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROPI	YL TRANSFERASE (GGT): SERUN htometry	M 14.11	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTROF	SERUM	6.87	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.06	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.81	gm/dL	2.30 - 3.50
A : G RATIO: SERUI by CALCULATED, SPEC	М	1.44	RATIO	1.00 - 2.00

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>	1.3 (Slightly Increa	used)

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 inter
	KIDNE	Y FUNCTIO	N TEST (COMPLET)	Е)
UREA: SERUM		20.09	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)			
CREATININE: SER by ENZYMATIC, SPEC		0.97	mg/dL	0.40 - 1.20
	ROGEN (BUN): SERUM	9.39	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY	,,		
	ROGEN (BUN)/CREATININE	9.68 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		20.71	RATIO	
by CALCULATED, SPE				
URIC ACID: SERUN by URICASE - OXIDAS		4.79	mg/dL	2.50 - 6.80
CALCIUM: SERUM		8.73	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: S		2.46	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		140.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	140.9	IIIII0I/L	155.0 - 150.0
POTASSIUM: SERU		3.77	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		105 69		00.0 110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		105.68	mmol/L	90.0 - 110.0
ESTIMATED GLO	MERULAR FILTERATION RAT	<u>re</u>		
	MERULAR FILTERATION RATE			
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				
	een pre- and post renal azotemia.			

To differentiate between pre- and post renal azotemia.

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

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



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mrs. OSHIN			
AGE/ GENDER	: 31 YRS/FEMALE	PAT	FIENT ID	: 1810799
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012503290043
REFERRED BY			GISTRATION DATE	: 29/Mar/2025 12:09 PM
BARCODE NO.	: 01527989		LECTION DATE	: 29/Mar/2025 12:17PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 29/Mar/2025 01:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANIT		
Test Name		Value	Unit	Biological Reference interval
 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. 	exia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 20-1) WITH ELEVATED CREATINII	·		osis, Cushing's syndrome, high protein diet,
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e.	NE LEVELS: more than creatinine)	(e.g. obstructive uropa	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. ecreased urea synthesis.	VE LEVELS: more than creatinine) e.		
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. ecreased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually abs	NE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood).	ar fluid).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy.	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. ecreased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually ab of inappropiate antidiuretic har	NE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood). mone) due to tubular s	ar fluid).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. ecreased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN	VE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood). mone) due to tubular s INE:	ar fluid).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 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	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINII a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. creased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c	VE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood). mone) due to tubular s INE:	ar fluid).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 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	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINII a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. creased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c releases muscle creatinine).	VE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood). mone) due to tubular s INE:	ar fluid).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome a 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO	a (e.g. ureter colostomy) hass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINII a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. and starvation. e. creased urea synthesis. (urea rather than creatinine dif imonemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c releases muscle creatinine). who develop renal failure.	VE LEVELS: more than creatinine) e. fuses out of extracellul sent in blood). mone) due to tubular s INE: creatine to creatinine).	ar fluid). ecretion of urea.	

ESTIMATED GLOMERULAR FILTERATION RATE: CKD STAGE DESCRIPTION GFR (mL/min/1.73m2) ASSOCIATED FINDINGS G1 Normal kidney function >90 No proteinuria Kidney damage with >90 Presence of Protein, G2 normal or high GFR Albumin or cast in urine G3a Mild decrease in GFR 60 - 89 Moderate decrease in GFR 30-59 G3b G4 Severe decrease in GFR 15-29 G5 Kidney failure <15





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AGE/ GENDER	: 31 YRS/FEMALE	PATIENT ID	: 1810799
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Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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NAME	: Mrs. OSHIN			
AGE/ GENDER	: 31 YRS/FEMALE	P	ATIENT ID	: 1810799
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Test Name		Value	Unit	Biological Reference interval
		CLINICAL P	ATHOLOGY	
	URINE ROU	TINE & MICR	OSCOPIC EXAMI	NATION
PHYSICAL EXAM				
QUANTITY RECIE		10	ml	
	CTANCE SPECTROPHOTOMETRY			
COLOUR	CTANCE SPECTROPHOTOMETRY	AMBER YE	LLOW	PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	1.01		1.002 1.020
	I CTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAN	MINATION			
REACTION		ACIDIC		
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	Regative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
pH	CTANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
-	CTANCE SPECTROPHOTOMETRY.	Normal	11./1 171	0.2 1.0
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)
	CTANCE SPECTROPHOTOMETRY	-		
ASCORBIC ACID by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	NEGATIVE	. (-ve)	NEGATIVE (-ve)
-				

MICROSCOPIC EXAMINATION



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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. OSHIN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELL	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	0 - 5
EPITHELIAL CELL by MICROSCOPY ON C	S CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	ABSENT

NEGATIVE (-ve) CRYSTALS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) OTHERS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report *





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