



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	MI	am Chopra ID (Pathology) ant Pathologist
NAME	: Mrs. SHWETA			
AGE/ GENDER	: 40 YRS/FEMALE		PATIENT ID	: 1588730
COLLECTED BY	:		REG. NO./LAB NO.	: 012408230034
REFERRED BY	:		REGISTRATION DATE	0
BARCODE NO.	: 01515560		COLLECTION DATE	: 23/Aug/2024 10:46AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	ALA CANT	REPORTING DATE T	: 23/Aug/2024 11:06AM
Test Name		Value	Unit	Biological Reference interval
		HAEN	//ATOLOGY	
	CON	IPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES		(
HAEMOGLOBIN (HB)		11 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE		4.39	Millions	s/cmm 3.50 - 5.00
	OCUSING, ELECTRICAL IMPEDENCE	4.37	TVIIIIOI13	3.30 - 3.00
PACKED CELL VOLUN	ЛЕ (PCV) automated hematology analyzer	35.6 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	81	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	25 ^L	pg	27.0 - 34.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	30.9 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	14.2	%	11.00 - 16.00
	NUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	43.1	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		18.45	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	26.14	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	S (WBCS)			INON DEI IGIENGT ANLINIA. 203.0
TOTAL LEUCOCYTE C		7930	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
	DOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER DCYTE COUNT (DLC)	NIL	%	< 10 %
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	69	%	50 - 70





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHWETA AGE/ GENDER : 40 YRS/FEMALE **PATIENT ID** :1588730 **COLLECTED BY** :012408230034 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Aug/2024 10:35 AM **BARCODE NO.** :01515560 **COLLECTION DATE** : 23/Aug/2024 10:46AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :23/Aug/2024 11:06AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 23 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 5472 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 1824 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 238 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 396 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 361000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.34 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 6.50 - 12.0 MEAN PLATELET VOLUME (MPV) 10 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 80000 /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 22.3 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.8 15.0 - 17.0 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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		h opra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	PR	OTHROMBIN TIME	STUDIES (PT/INR)		
PT TEST (PATIENT) by photo optical c	CLOT DETECTION	12.2	SECS	11.5 - 14.5	
PT (CONTROL) by photo optical c	SLOT DETECTION	12	SECS		
ISI by photo optical o	SLOT DETECTION	1.1			
INTERNATIONAL NO	RMALISED RATIO (INR)	1.02		0.80 - 1.20	
PT INDEX		98.36	%		

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR	ORAL ANTI-CO	AGULANT THE	RAPY (INR)
INDICATION		INTERNATIO	NAL NORMALIZED RATIC (INR)
Treatment of venous thrombosis			
Treatment of pulmonary embolism			
Prevention of systemic embolism in tissue heart valves			
Valvular heart disease	Low Intensity		2.0 - 3.0
Acute myocardial infarction			
Atrial fibrillation			
Bileaflet mechanical valve in aortic position			
Recurrent embolism			
Mechanical heart valve	High Intensity		2.5 - 3.5
Antiphospholipid antibodies ⁺			
COMMENTS:			





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Test Name		Value Unit	Biological Reference interval

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are : 1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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Test Name		Value	Unit	Biological Reference interval
	ACTIVA	TED PARTIAL THRO	OMBOPLASTIN TIME	(APTT)
APTT (PATIENT VALL		32.6	SECS	28.6 - 38.2

INTERPRETATION:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

The activated partial thromboplastin time (aPTT or APTT) is a performance indicator measuring the efficacy of both the **intrinsic** (now referred to as the contact activation pathway) and the common coagulation pathways. Apart from detecting abnormalities in blood clotting, it is also used to monitor the treatment effects with heparin, a major anticoagulant. It is used in conjunction with the prothrombin time (PT) which measures the extrinsic pathway.

COMMON CAUSES OF PROLONGED APTT :-

1. Disseminated intravascular coagulation.

2. Liver disease.

3. Massive transfusion with stored blood.

4. Heparin administration or contamination.

5. A circulating Anticogulant.

6. Deficiency of a coagulation Factor other than factor 7.





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est Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY		Y
GLUCOSE RANDOM (R): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		131.92	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0





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

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Test Name	Value	Unit	Biological Reference interval
LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.27	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	21	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	116.46	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	65.33 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.11	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.27	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.84	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.5	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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Page 7 of 12

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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).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6
	1.2 1.0



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Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mrs. SHWETA **PATIENT ID** : 40 YRS/FEMALE REG. NO./LAB NO. : **REGISTRATION DATE** : :01515560 **COLLECTION DATE**

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Test Name	Value	Unit	Biological Reference interval
	KIDNEY FUNCTION	TEST (BASIC)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	22.92	mg/dL	10.00 - 50.00
CREATININE: SERUM by enzymatic, spectrophotometery	0.87	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometery	10.71	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometery	12.31	RATIO	10.0 - 20.0
JREA/CREATININE RATIO: SERUM by Calculated, spectrophotometery	26.34	RATIO	
JRIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.52	mg/dL	2.50 - 6.80

REPORTING DATE



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Page 9 of 12

NAME

AGE/ GENDER

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Test Name		Value	Unit	Biological Reference interval		
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g INCREASED RATIO (< 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 1. Mapropiate RATIO 1. Diabetic ketoacido should produce an ir	ke or production or tissue breakdo xia, high fever). (e.g. ureterocolostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. Id starvation. e. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure.	tion) LEVELS: re than creatinine) (e.g. of t in blood). ne) due to tubular secretic :: tine to creatinine). ease in creatinine with cer	d). n of urea.	psis, Cushings syndrome, high protein diet, hy).		
	DR.VINAY CHOPRA	TR.YUGAM CHOPR	-			

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7







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				/
Test Name		Value	Unit	Biological Reference interval
		ELECTROLYTES CON	IPLETE PROFILE	
Sodium: Serum		139.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	E ELECTRODE)	107.0	HIHO/L	133.0 130.0
POTASSIUM: SERUM	1	4.16	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	'E ELECTRODE)	104.40		00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV		104.48	mmol/L	90.0 - 110.0
INTERPRETATION:-				
 Low sodium intake Sodium loss due to Diuretics abuses. Salt loosing nephr Metabolic acidosi Adrenocortical iss Hepatic failure. 	o diarrhea & vomiting with adec opathy. s. uficiency . C REASED SODIUM LEVEL) CAUSE nged)		ate salt replacement.	
released in the blood HYPOKALEMIA (LOW 1.Diarrhoea, vomitin 2. Severe Burns. 3.Increased Secretion	l. POTASSIUM LEVELS):- g & malabsorption. as of Aldosterone REASED POTASSIUM LEVELS):- bock	uid. 90% of potassium is	s concentrated within t	the cells. When cells are damaged, potassium





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BARCODE NO.	: 01515560	COLLECTION DATE	: 23/Aug/2024 10:46AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Aug/2024 11:42AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	CANTT			
Test Name	Valu	ue Unit	Biological Reference interval		

4.Hemolysis of blood

*** End Of Report ***





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