CLIENT CODE.



# PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

## A PIONEER DIAGNOSTIC CENTRE

**■** 0171-2532620, 8222896961 ■ pkrjainhealthcare@gmail.com

: 14/Sep/2024 01:13PM

**NAME** : Master. KASHI

**AGE/ GENDER** : 5 YRS/MALE **PATIENT ID** : 1612714

**COLLECTED BY** : 122409140012 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 14/Sep/2024 10:16 AM BARCODE NO. : 12504689 **COLLECTION DATE** : 14/Sep/2024 11:06AM

**CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

: P.K.R JAIN HEALTHCARE INSTITUTE

Test Name Value Unit **Biological Reference interval** 

# **HAEMATOLOGY**

REPORTING DATE

## **COMPLETE BLOOD COUNT (CBC)**

## **RED BLOOD CELLS (RBCS) COUNT AND INDICES**

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY

HAEMOGLOBIN (HB) by CALORIMETRIC	12.3	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT  by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.44	Millions/cmm	3.50 - 5.50
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	34.3 <sup>L</sup>	%	35.0 - 49.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	77.2 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	27.8	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	36	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	13.7	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	41.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.39	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	23.9	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC)  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  DIFFERENTIAL LEUCOCYTE COUNT (DLC)	6470	/cmm	5000 - 15000
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	50	%	50 - 70
LYMPHOCYTES  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	42	%	20 - 45
EOSINOPHILS	2	%	1 - 6



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)





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Test Name	Value	Unit	Biological Reference interval
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	3 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3235	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2717 <sup>L</sup>	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	129	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	388	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	ERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	241000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	9	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	45000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	18.5	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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Test Name Value Unit **Biological Reference interval** 

## CLINICAL CHEMISTRY/BIOCHEMISTRY

## **LIVER FUNCTION TEST (COMPLETE)**

BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.31	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.08	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.23	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23.61	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	12.75	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.85	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM  by Para nitrophenyl phosphatase by amino methyl propanol	207.24	U/L	50.00 - 370.00
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	10.94	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.48	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.22	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.26 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.87	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



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Test Name	Value	Unit	Biological Reference interval
INTRAHEPATIC CHOLESTATIS		> 1.5	
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	
DEADERAGED			

### 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:

. Ito citocitic dicitii toriitozi	
NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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

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REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)



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Test Name	Value	Unit	Biological Reference interval
	KIDNEY FUNCTION	TECT (DACIO)	
	KIDNEY FUNCTION	TEST (BASIC)	
UREA: SERUM	15.46	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM	0.51	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECTROPHOTOMETERY			
BLOOD UREA NITROGEN (BUN): SERUM	7.22	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETERY			
BLOOD UREA NITROGEN (BUN)/CREATININE	14.16 <sup>H</sup>	RATIO	10.0 - 20.0
RATIO: SERUM			
by CALCULATED, SPECTROPHOTOMETERY			
UREA/CREATININE RATIO: SERUM	30.31	RATIO	
by CALCULATED, SPECTROPHOTOMETERY			
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	3.53 <sup>L</sup>	mg/dL	3.60 - 7.70



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Test Name Value Unit **Biological Reference interval** 

**INTERPRETATION:** 

Normal range for a healthy person on normal diet: 12 - 20

To Differentiate between pre- and postrenal 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.

Ž.Catabolic states with increased tissue breakdown.

3.GI hemorrhage.

4. High protein intake.

5. Impaired renal function plus.

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushings syndrome, high protein diet,

burns, surgery, cachexia, high fever)

7. Urine reabsorption (e.g. ureterocolostomy)
8. Reduced muscle mass (subnormal creatinine production)
9. Certain drugs (e.g. tetracycline, glucocorticoids)
INCREASED RATIO (pia (PLIN rices diegrapartic particular partic

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

### DECREASED RATIO (<10:1) WITH DECREASED BUN:

1.Acute tubular necrosis.

2.Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6.Inherited hyperammonemias (urea is virtually absent in blood)

7.SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy

### DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure

### **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

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



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Value Unit **Biological Reference interval** Test Name

## **CLINICAL PATHOLOGY** URINE ROUTINE & MICROSCOPIC EXAMINATION

### PHYSICAL EXAMINATION

QUANTITY RECIEVED ml

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PALE YELLOW **COLOUR** PALE YELLOW

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY **TURBID CLEAR** 

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY 1.002 - 1.030 SPECIFIC GRAVITY 1.01

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

### **CHEMICAL EXAMINATION**

REACTION **ACIDIC** 

**PROTEIN** NEGATIVE (-ve) NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **SUGAR NEGATIVE** (-ve) **NEGATIVE** (-ve)

рΗ 6.5 5.0 - 7.5

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **BILIRUBIN NEGATIVE** (-ve) **NEGATIVE** (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

**NITRITE NEGATIVE** (-ve) **NEGATIVE** (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.

EU/dL **NOT DETECTED UROBILINOGEN** 0.2 - 1.0by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

KETONE BODIES NEGATIVE (-ve) **NEGATIVE (-ve)** 

2+ **NEGATIVE (-ve)** 

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

ASCORBIC ACID **NEGATIVE (-ve) NEGATIVE (-ve)** by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

MICROSCOPIC EXAMINATION



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Test Name	Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	15-18	/HPF	0 - 3
PUS CELLS  by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	0 - 5
EPITHELIAL CELLS  by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/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



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