

NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 11:51:56
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure Description	CR /Xray chest PA (CXR)
REPORTED ON	06-03-2023 13:53:22	REFERRED BY	Dr. Health Check MHD

X-RAY CHEST - PA VIEW

Findings:

Visualized lung fields appear clear.

Both hilar shadows appear normal.

Cardiothoracic ratio is within normal limits.

Both hemidiaphragmatic outlines appear normal.

Both costophrenic angles are clear.

Kindly correlate clinically



Dr. Roly Srivastava
MBBS ,DNB, DMC No. 45626
Consultant Radiologist

N.B. : This is only a professional opinion and not the final diagnosis. Radiological investigations are subject to variations due to technical limitations. Hence, correlation with clinical findings and other investigations should be carried out to know true nature of illness.

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AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure Description	CR /Xray chest PA (CXR)
REPORTED ON	06-03-2023 13:53:22	REFERRED BY	Dr. Health Check MHD

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010826560

MR VINAY KUMAR TIWARI

3/6/2023 10:23:48 AM

33 Years

Male

Rate 52 . Sinus rhythm.....normal P axis, V-rate 50- 99

PR 137

QRSD 94

QT 439

QTc 409

--AXIS--

P 17

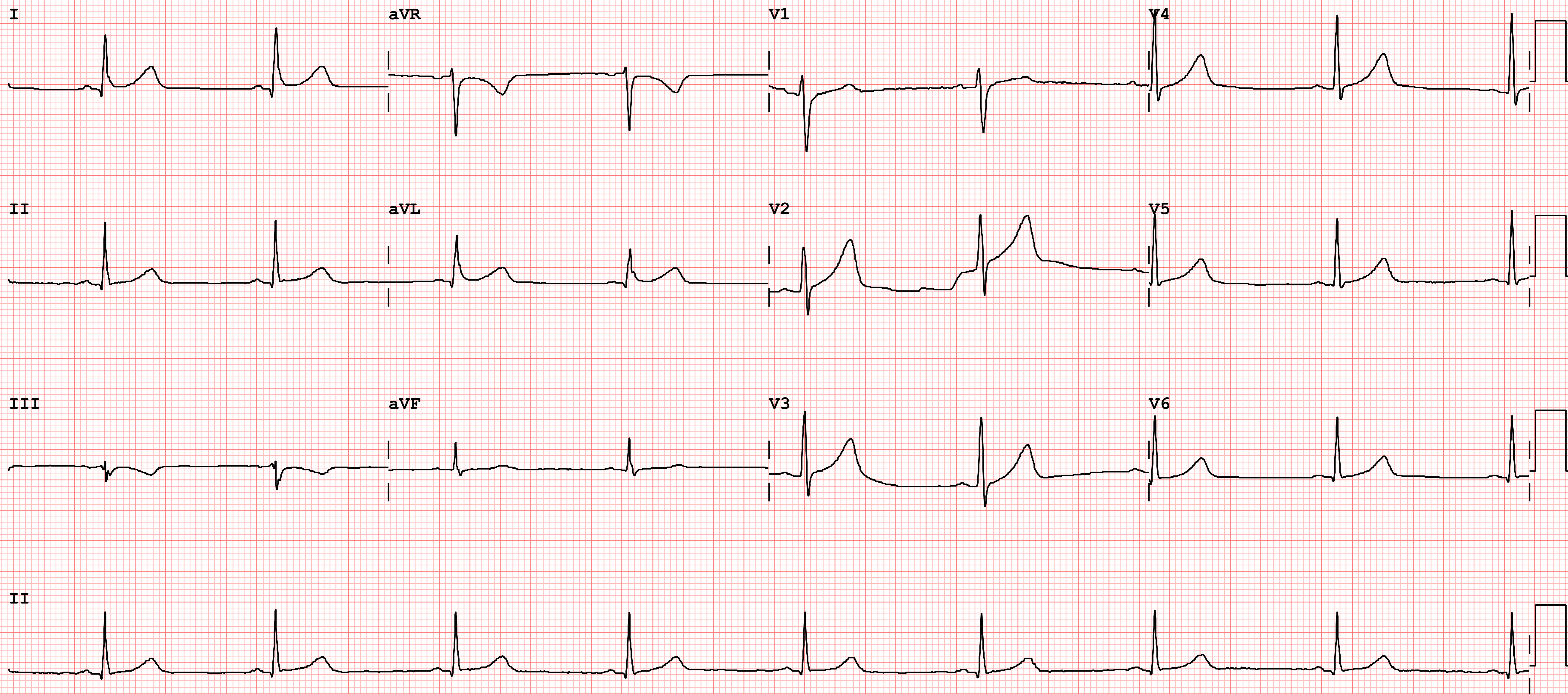
QRS 9

T 7

- NORMAL ECG -

12 Lead; Standard Placement

Unconfirmed Diagnosis



Device:

Speed: 25 mm/sec

Limb: 10 mm/mV

Chest: 10.0 mm/mV

F 60~ 0.15-100 Hz

100B CL

P?

NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 12:31:50
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure Description	US /Echo-Cardiogram
REPORTED ON	07-03-2023 11:01:18	REFERRED BY	Dr. Health Check MHD

2D ECHOCARDIOGRAPHY REPORT

Findings:

	End diastole	End systole
IVS thickness (cm)	1.1	1.3
Left Ventricular Dimension (cm)	4.2	3.0
Left Ventricular Posterior Wall thickness (cm)	1.0	1.2

Aortic Root Diameter (cm)	2.6
Left Atrial Dimension (cm)	3.3
Left Ventricular Ejection Fraction (%)	60 %

LEFT VENTRICLE	:	Normal in size. No RWMA. LVEF= 60 %
RIGHT VENTRICLE	:	Normal in size. Normal RV function.
LEFT ATRIUM	:	Normal in size
RIGHT ATRIUM	:	Normal in size
MITRAL VALVE	:	Normal
AORTIC VALVE	:	Normal
TRICUSPID VALVE	:	Normal
PULMONARY VALVE	:	Normal
MAIN PULMONARY ARTERY & ITS BRANCHES	:	Appears normal.

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NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 12:31:50
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure Description	US /Echo-Cardiogram
REPORTED ON	07-03-2023 11:01:18	REFERRED BY	Dr. Health Check MHD

INTERATRIAL SEPTUM : Intact.

INTERVENTRICULAR SEPTUM : Intact.

PERICARDIUM : No pericardial effusion or thickening
DOPPLER STUDY

VALVE	Peak Velocity (cm/sec)	Maximum P.G. (mmHg)	Mean P. G. (mmHg)	Regurgitation	Stenosis
MITRAL	E=73 A=59	-	-	Nil	Nil
AORTIC	115	-	-	Nil	Nil
TRICUSPID	-	N	N	Nil	Nil
PULMONARY	48	N	N	Nil	Nil

SUMMARY & INTERPRETATION:

- No LV regional wall motion abnormality with LVEF = 60 %
- Normal sized RA/RV/LV/LA with no chamber hypertrophy. Normal RV function.
- Normal cardiac valves.
- No MR/AR/TR/PR
- Normal mitral inflow pattern.
- IVC normal in size, >50% collapse with inspiration, suggestive of normal RA pressure.
- No clot/vegetation/pericardial effusion.

Please correlate clinically

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NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 12:31:50
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure Description	US /Echo-Cardiogram
REPORTED ON	07-03-2023 11:01:18	REFERRED BY	Dr. Health Check MHD

DR. SAMANJOY MUKHERJEE
MD, DM
CONSULTANT CARDIOLOGIST

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Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 31230300274
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 13:16
Receiving Date : 06 Mar 2023 11:27

Department of Transfusion Medicine (Blood Bank)

BLOOD GROUPING, RH TYPING & ANTIBODY SCREEN (TYPE & SCREEN)
Specimen-Blood

Blood Group & Rh Typing (Agglutination by gel/tube technique)

Blood Group & Rh typing A Rh(D) Positive

Antibody Screening (Microtyping in gel cards using reagent red cells)

Cell Panel I NEGATIVE
Cell Panel II NEGATIVE
Cell Panel III NEGATIVE
Autocontrol NEGATIVE

Final Antibody Screen Result Negative

Technical Note:

ABO grouping and Rh typing is done by cell and serum grouping by microplate / gel technique. Antibody screening is done using a 3 cell panel of reagent red cells coated with Rh, Kell, Duffy, Kidd, Lewis, P, MNS, Lutheran and Xg antigens using gel technique.

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-----END OF REPORT-----

Dr Himanshu Lamba



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Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 32230302105
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 12:02
Receiving Date : 06 Mar 2023 10:31

BIOCHEMISTRY

Glycosylated Hemoglobin Specimen: EDTA Whole blood
HbA1c (Glycosylated Hemoglobin) 5.6 As per American Diabetes Association (ADA)
% [4.0-6.5] HbA1c in %
Non diabetic adults >= 18years <5.7
Prediabetes (At Risk) 5.7-6.4
Diagnosing Diabetes >= 6.5

Methodology (HPLC)

Estimated Average Glucose (eAG) 114 mg/dl

Comments : HbA1c provides an index of average blood glucose levels over the past 8-12 weeks and is a much better indicator of long term glycemic control.

Specimen Type : Serum

THYROID PROFILE, Serum

T3 - Triiodothyronine (ECLIA)	1.33	ng/ml	[0.70-2.04]
T4 - Thyroxine (ECLIA)	9.38	µg/dl	[4.60-12.00]
Thyroid Stimulating Hormone (ECLIA)	1.670	µIU/mL	[0.340-4.250]

Note : TSH levels are subject to circadian variation, reaching peak levels between 2-4.a.m.and at a minimum between 6-10 pm.Factors such as change of seasons hormonal fluctuations,Ca or Fe supplements,high fibre diet, stress and illness affect TSH results.

* References ranges recommended by the American Thyroid Association

1) Thyroid. 2011 Oct;21(10):1081-125.PMID .21787128

2) <http://www.thyroid-info.com/articles/tsh-fluctuating.html>



Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 32230302105
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 11:55
Receiving Date : 06 Mar 2023 10:25

BIOCHEMISTRY

Lipid Profile (Serum)

TOTAL CHOLESTEROL (CHOD/POD)	206 #	mg/dl	[<200] Moderate risk:200-239 High risk:>240
TRIGLYCERIDES (GPO/POD)	354 #	mg/dl	[<150] Borderline high:151-199 High: 200 - 499 Very high:>500
HDL - CHOLESTEROL (Direct) Methodology: Homogenous Enzymatic	33	mg/dl	[30-60]
VLDL - Cholesterol (Calculated)	71 #	mg/dl	[10-40]
LDL- CHOLESTEROL	102 #	mg/dl	[<100] Near/Above optimal-100-129 Borderline High:130-159 High Risk:160-189
T.Chol/HDL.Chol ratio	6.2		<4.0 Optimal 4.0-5.0 Borderline >6 High Risk
LDL.CHOL/HDL.CHOL Ratio	3.1		<3 Optimal 3-4 Borderline >6 High Risk

Note:
Reference ranges based on ATP III Classifications.
Recommended to do fasting Lipid Profile after a minimum of 8 hours of overnight fasting.



Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 32230302105
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 11:56
Receiving Date : 06 Mar 2023 10:25

BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Interval
LIVER FUNCTION TEST (Serum)			
BILIRUBIN-TOTAL (mod.J Groff)**	0.59	mg/dl	[0.10-1.20]
BILIRUBIN - DIRECT (mod.J Groff)	0.21 #	mg/dl	[<0.2]
BILIRUBIN - INDIRECT (mod.J Groff)	0.38	mg/dl	[0.20-1.00]
SGOT/ AST (P5P,IFCC)	18.90	IU/L	[5.00-37.00]
SGPT/ ALT (P5P,IFCC)	30.60	IU/L	[10.00-50.00]
ALP (p-NPP,kinetic)*	71	IU/L	[45-135]
TOTAL PROTEIN (mod.Biuret)	8.3 #	g/dl	[6.0-8.2]
SERUM ALBUMIN (BCG-dye)	4.9	g/dl	[3.5-5.0]
SERUM GLOBULIN (Calculated)	3.4	g/dl	[1.8-3.4]
ALB/GLOB (A/G) Ratio	1.44		[1.10-1.80]

Note:

**NEW BORN:Vary according to age (days), body wt & gestation of baby

*New born: 4 times the adult value





Name : MR VINAY KUMAR TIWARI Age : 33 Yr(s) Sex :Male
Registration No : MH010826560 Lab No : 32230302105
Patient Episode : H03000052686 Collection Date : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD Reporting Date : 06 Mar 2023 11:54
Receiving Date : 06 Mar 2023 10:25

BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Interval
KIDNEY PROFILE (Serum)			
BUN (Urease/GLDH)	12.00	mg/dl	[8.00-23.00]
SERUM CREATININE (mod.Jaffe)	0.92	mg/dl	[0.80-1.60]
SERUM URIC ACID (mod.Uricase)	8.2 #	mg/dl	[3.5-7.2]
SERUM CALCIUM (NM-BAPTA)	9.6	mg/dl	[8.6-10.0]
SERUM PHOSPHORUS (Molybdate, UV)	2.7	mg/dl	[2.3-4.7]
SERUM SODIUM (ISE)	137.0	mmol/l	[134.0-145.0]
SERUM POTASSIUM (ISE)	3.96	mmol/l	[3.50-5.20]
SERUM CHLORIDE (ISE / IMT)	101.8	mmol/l	[95.0-105.0]
eGFR	108.9	ml/min/1.73sq.m	[>60.0]

Technical Note

eGFR which is primarily based on Serum Creatinine is a derivation of CKD-EPI 2009 equation normalized to 1.73 sq.m BSA and is not applicable to individuals below 18 years. eGFR tends to be less accurate when Serum Creatinine estimation is indeterminate e.g. patients at extremes of muscle mass, on unusual diets etc. and samples with severe Hemolysis / Icterus / Lipemia.

-----END OF REPORT-----

Dr. Neelam Singal
CONSULTANT BIOCHEMISTRY



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Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 32230302106
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 12:02
Receiving Date : 06 Mar 2023 10:24

BIOCHEMISTRY

Specimen Type : Serum/Plasma

Plasma GLUCOSE-Fasting (Hexokinase) 96 mg/dl [70-100]

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Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 32230302235
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 13:21
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 15:21
Receiving Date : 06 Mar 2023 14:02

BIOCHEMISTRY

Test Name	Result	Unit
VITAMIN D TOTAL, Serum (ECLIA)	17.49	ng/ml

Deficiency : Less than 20 ng/ml
Insufficiency : 20-29 ng/ml
Optimum level : 30-80 ng/ml

Note:

Recent studies consider the lower limit of 30ng/ml to be a threshold for optimal health.

Ref: Hollis BW. J Nutr. 2005 Feb;135(2) : 317-22.

Test Name	Result	Unit	Biological Ref. Interval
VITAMIN B-12, Serum (ECLIA)	273.00	pg/mLpg/mL	[211.00-940.00] Deficient: 32 - 246

Note :

Patients taking vitamin B12 supplementation may have misleading results

Many other conditions are known to cause an increase or decrease in the serum vitamin B12 concentration including:

Increased Serum B12:

Ingestion of vitamin C, estrogens, vitamin A. Hepatocellular injury, Myeloproliferative disorder, Uremia etc.

Decreased Serum B12:

Pregnancy, Aspirin, Anticonvulsants, Colchicine, Contraceptives, Smoking, Hemodialysis, Multiple myeloma, Ethanol ingestion etc.

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Neelam Singal
Dr. Neelam Singal
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Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 33230301256
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 13:01
Receiving Date : 06 Mar 2023 10:31

HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (Automated) Specimen-Whole Blood

ESR **14.0 #** /1sthour **[0.0-10.0]**

Interpretation :

Erythrocyte sedimentation rate (ESR) is a non-specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants (e.g. pyogenic infections, inflammation and malignancies). The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week postpartum.

ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives).

It is especially low (0 -1mm) in polycythemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

Test Name	Result	Unit	Biological Ref. Interval
COMPLETE BLOOD COUNT (EDTA Blood)			
WBC Count (Flow cytometry)	5020	/cu.mm	[4000-10000]
RBC Count (Impedence)	4.93	million/cu.mm	[4.50-5.50]
Haemoglobin (SLS Method)	14.7	g/dL	[13.0-17.0]
Haematocrit (PCV) (RBC Pulse Height Detector Method)	42.3	%	[40.0-50.0]
MCV (Calculated)	85.8	fL	[83.0-101.0]
MCH (Calculated)	29.8	pg	[25.0-32.0]
MCHC (Calculated)	34.8 #	g/dL	[31.5-34.5]
Platelet Count (Impedence)	208000	/cu.mm	[150000-410000]
RDW-CV (Calculated)	12.3	%	[11.6-14.0]
DIFFERENTIAL COUNT			
Neutrophils (Flowcytometry)	52.6	%	[40.0-80.0]
Lymphocytes (Flowcytometry)	37.8	%	[20.0-40.0]



Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 33230301256
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
Referred By : HEALTH CHECK MHD **Reporting Date** : 06 Mar 2023 12:04
Receiving Date : 06 Mar 2023 10:31

HAEMATOLOGY

Monocytes (Flowcytometry)	6.8	%	[2.0-10.0]
Eosinophils (Flowcytometry)	2.6	%	[1.0-6.0]
Basophils (Flowcytometry)	0.2 #	%	[1.0-2.0]
IG	0.20	%	
Neutrophil Absolute(Flourescence flow cytometry)	2.6	/cu mm	[2.0-7.0]x10 ³
Lymphocyte Absolute(Flourescence flow cytometry)	1.9	/cu mm	[1.0-3.0]x10 ³
Monocyte Absolute(Flourescence flow cytometry)	0.3	/cu mm	[0.2-1.2]x10 ³
Eosinophil Absolute(Flourescence flow cytometry)	0.1	/cu mm	[0.0-0.5]x10 ³
Basophil Absolute(Flourescence flow cytometry)	0.0	/cu mm	[0.0-0.1]x10 ³

Complete Blood Count is used to evaluate wide range of health disorders, including anemia, infection, and leukemia. Abnormal increase or decrease in cell counts as revealed may indicate that an underlying medical condition that calls for further evaluation.

-----END OF REPORT-----

Dr.Lakshita singh



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Name	: MR VINAY KUMAR TIWARI	Age	: 33 Yr(s) Sex :Male
Registration No	: MH010826560	Lab No	: 38230300384
Patient Episode	: H03000052686	Collection Date	: 06 Mar 2023 10:17
Referred By	: HEALTH CHECK MHD	Reporting Date	: 06 Mar 2023 15:16
Receiving Date	: 06 Mar 2023 11:09		

CLINICAL PATHOLOGY

Test Name	Result	Biological Ref. Interval
ROUTINE URINE ANALYSIS		
MACROSCOPIC DESCRIPTION		
Colour (Visual)	YELLOW	(Pale Yellow - Yellow)
Appearance (Visual)	CLEAR	
CHEMICAL EXAMINATION		
Reaction[pH] (Reflectancephotometry(Indicator Method))	5.0	(5.0-9.0)
Specific Gravity (Reflectancephotometry(Indicator Method))	1.020	(1.003-1.035)
Bilirubin	Negative	NEGATIVE
Protein/Albumin (Reflectance photometry(Indicator Method)/Manual SSA)	Negative	(NEGATIVE-TRACE)
Glucose (Reflectance photometry (GOD-POD/Benedict Method))	NOT DETECTED	(NEGATIVE)
Ketone Bodies (Reflectance photometry(Legal's Test)/Manual Rotheras)	NOT DETECTED	(NEGATIVE)
Urobilinogen Reflectance photometry/Diazonium salt reaction	NORMAL	(NORMAL)
Nitrite	NEGATIVE	NEGATIVE
Reflectance photometry/Griess test		
Leukocytes	NIL	NEGATIVE
Reflectance photometry/Action of Esterase		
BLOOD (Reflectance photometry(peroxidase))	NIL	NEGATIVE
MICROSCOPIC EXAMINATION (Manual) Method: Light microscopy on centrifuged urine		
WBC/Pus Cells	1-2 /hpf	(4-6)
Red Blood Cells	NIL	(1-2)
Epithelial Cells	1-2 /hpf	(2-4)
Casts	NIL	(NIL)
Crystals	NIL	(NIL)
Bacteria	NIL	
Yeast cells	NIL	

Interpretation:



Name : MR VINAY KUMAR TIWARI **Age** : 33 Yr(s) Sex :Male
Registration No : MH010826560 **Lab No** : 38230300384
Patient Episode : H03000052686 **Collection Date** : 06 Mar 2023 10:17
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CLINICAL PATHOLOGY

URINALYSIS--Routine urine analysis assists in screening and diagnosis of various metabolic , urological, kidney and liver disorders

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine.

Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine.

Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most Common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased Specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased Specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.

Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in case of hemolytic anemia.

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Lakshita Singh

Dr.Lakshita Singh



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NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 12:01:51
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure	US /Ultrasound abdomen n pelvis
REPORTED ON	06-03-2023 13:08:28	REFERRED BY	Dr. Health Check MHD

USG WHOLE ABDOMEN

Findings:

Liver is normal in size (14.8cm) and shows grade I fatty changes. No focal intra-hepatic lesion is detected. Intra-hepatic biliary radicals are not dilated. Portal vein is normal in calibre.

Gall bladder appears echofree with normal wall thickness. Common bile duct is normal in calibre.

Pancreas is normal in size and echopattern.

Spleen is normal in size (12.2cm) and echopattern.

Both kidneys are normal in position, size (RK = 120x53mm and LK = 122x47mm) and outline. Cortico-medullary differentiation of both kidneys is maintained. Central sinus echoes are compact. No focal lesion or calculus seen. Bilateral pelvicalyceal systems are not dilated.

Urinary bladder is normal in wall thickness with clear contents. No significant intra or extraluminal mass is seen.

Prostate is normal in size, shape and echopattern. It measures 17.4cc in volume.

No significant free fluid is detected.

Impression:

Grade I fatty liver.

Kindly correlate clinically

Dr. Nipun Gumber MD, DMC No. 90272

N.B. : This is only a professional opinion and not the final diagnosis. Radiological investigations are subject to variations due to technical limitations. Hence, correlation with clinical findings and other investigations should be carried out to know true nature of illness.

NAME	Vinay KUMAR TIWARI	STUDY DATE	06-03-2023 12:01:51
AGE / SEX	033Yrs / M	HOSPITAL NO.	MH010826560
REFERRING DEPT	OPD	MODALITY/Procedure	US /Ultrasound abdomen n pelvis
REPORTED ON	06-03-2023 13:08:28	REFERRED BY	Dr. Health Check MHD

Associate Consultant

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