

DEPARTMENT OF LABORATORY MEDICINE

Final Report

Patient Name : Mr Nagaraju G MRN : 20110000013360 Gender/Age : MALE , 34y (14/07/1989)

Collected On : 05/09/2023 10:15 AM Received On : 05/09/2023 01:19 PM Reported On : 05/09/2023 04:36 PM

Barcode : 032309050162 Specimen : Urine Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9663438400

CLINICAL PATHOLOGY

Test	Result	Unit	Biological Reference Interval
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URINE ROUTINE & MICROSCOPY

PHYSICAL EXAMINATION

Colour	STRAW	-	-
Appearance	Clear	-	-

CHEMICAL EXAMINATION

pH(Reaction) (pH Indicator Method)	5.5	-	4.5-7.5
Sp. Gravity (Refractive Index)	1.014	-	1.002 - 1.030
Protein (Automated Protein Error Or Ph Indicator)	Not Present	-	Not Present
Urine Glucose (Enzyme Method (GOD POD))	Not Present	-	Not Present
Ketone Bodies (Nitroprusside Method)	Not Present	-	Not Present
Bile Salts (Azo Coupling Method)	Not Present	-	Not Present
Bile Pigment (Bilirubin) (Azo Coupling Method)	Not Present	-	Not Present
Urobilinogen (Azo Coupling Method)	Normal	-	Normal
Urine Leucocyte Esterase (Measurement Of Leukocyte Esterase Activity)	Not Present	-	Not Present
Blood Urine (Peroxidase Reaction)	Not Present	-	Not Present
Nitrite (Gries Method)	Not Present	-	Not Present

MICROSCOPIC EXAMINATION

Pus Cells	0.6	/hpf	0-5
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Patient Name : Mr Nagaraju G MRN : 20110000013360 Gender/Age : MALE , 34y (14/07/1989)

RBC	0.1	/hpf	0-4
Epithelial Cells	0.9	/hpf	0-6
Crystals	0.0	/hpf	0-2
Casts	0.00	/hpf	0-1
Bacteria	0.4	/hpf	0-200
Yeast Cells	0.0	/hpf	0-1
Mucus	0.00	-	-

Interpretation Notes

- Since the analytical methodology of Urine Microscopy is Flow cytometry based and FDA approved the results of automated urine microscopy which includes RBCs, WBCs Epithelial cells etc are being reported in decimal fraction. Rounding off the value to nearest whole number is suggested.

STOOL ROUTINE EXAMINATION

PHYSICAL EXAMINATION

Colour	Brownish	-	-
Consistency	Semi Solid	-	-
Mucus	Absent	-	-

CHEMICAL EXAMINATION

Stool For Occult Blood (Standard Guaiac Method)	Negative	-	-
Reaction	Alkaline	-	-
Reducing Substances	Absent	-	-

MICROSCOPE EXAMINATION

Ova	Not Seen	-	-
Cyst Of Protozoa	Not Seen	-	-

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Trophozoite	Not Seen	-	-
Pus Cells	2-4	/hpf	0-5



Dr. Shalini K S
DCP, DNB, Pathology
Consultant

BIOCHEMISTRY

Test	Result	Unit	Biological Reference Interval
Fasting Blood Sugar (FBS) (Colorimetric - Glucose Oxidase Peroxidase)	94	mg/dL	70 to 99 : Normal 100 to 125 : Pre-diabetes =>126 : Diabetes ADA standards 2020
Post Prandial Blood Sugar (PPBS) (Colorimetric - Glucose Oxidase Peroxidase)	118	mg/dL	70 to 139 : Normal 140 to 199 : Pre-diabetes =>200 : Diabetes ADA standards 2020
HBA1C			
HbA1c (HPLC NGSP Certified)	5.6	%	Normal: 4.0-5.6 Prediabetes: 5.7-6.4 Diabetes: => 6.5 ADA standards 2020
Estimated Average Glucose (Calculated)	114.02	-	-

Interpretation:

- HbA1C above 6.5% can be used to diagnose diabetes provided the patient has symptoms. If the patient does not have symptoms with HbA1C>6.5%, repeat measurement on further sample. If the repeat test result is <6.5%, consider as diabetes high risk and repeat measurement after 6 months.
- HbA1C measurement is not appropriate in diagnosing diabetes in children, suspicion of type 1 diabetes, symptoms of diabetes for less than 2 months, pregnancy, hemoglobinopathies, medications that may result sudden increase in glucose, anemia, renal failure, HIV infection, malignancies, severe chronic hepatic, and renal disease.
- Any sample with >15% should be suspected of having a haemoglobin variant.

SERUM CREATININE

Serum Creatinine (Two Point Rate - Creatinine Aminohydrolase)	0.81	mg/dL	0.66-1.25
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Patient Name : Mr Nagaraju G MRN : 20110000013360 Gender/Age : MALE , 34y (14/07/1989)			
eGFR (Calculated)	109.1	mL/min/1.73m ²	Indicative of renal impairment < 60 Note:eGFR is inaccurate for Hemodynamically unstable patients eGFR is not applicable for less than 18 years of age.
Blood Urea Nitrogen (BUN) (Endpoint /Colorimetric – Urease)	8 L	mg/dL	9.0-20.0
Serum Uric Acid (Colorimetric - Uricase,Peroxidase)	6.01	mg/dL	3.5-8.5
LIPID PROFILE (CHOL,TRIG,HDL,LDL,VLDL)			
Cholesterol Total (Colorimetric - Cholesterol Oxidase)	223 H	mg/dL	Desirable: < 200 Borderline High: 200-239 High: > 240
Triglycerides (Colorimetric - Lip/Glycerol Kinase)	112	mg/dL	Normal: < 150 Borderline: 150-199 High: 200-499 Very High: > 500
HDL Cholesterol (HDLC) (Colorimetric: Non HDL Precipitation Phosphotungstic Acid Method)	41	mg/dL	40.0-60.0
Non-HDL Cholesterol (Calculated)	182.0 H	mg/dL	Desirable: < 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190-219 Very High: => 220
LDL Cholesterol (Colorimetric)	164 H	mg/dL	Optimal: < 100 Near to above optimal: 100-129 Borderline High: 130-159 High: 160-189 Very High: > 190
VLDL Cholesterol (Calculated)	22.4	mg/dL	0.0-40.0
Cholesterol /HDL Ratio (Calculated)	5.5 H	-	0.0-5.0
LIVER FUNCTION TEST(LFT)			
Bilirubin Total (Colorimetric -Diazo Method)	0.60	mg/dL	0.2-1.3
Conjugated Bilirubin (Direct) (Dual Wavelength - Reflectance Spectrophotometry)	0.00	mg/dL	0.0-0.3
Unconjugated Bilirubin (Indirect) (Calculated)	0.6	mg/dL	0.0-1.1
Total Protein (Colorimetric - Biuret Method)	7.80	gm/dL	6.3-8.2

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Serum Albumin (Colorimetric - Bromo-Cresol Green)	4.70	gm/dL	3.5-5.0
Serum Globulin (Calculated)	3.1	gm/dL	2.0-3.5
Albumin To Globulin (A/G)Ratio (Calculated)	1.52	-	1.0-2.1
SGOT (AST) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	40	U/L	17.0-59.0
SGPT (ALT) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	41	U/L	<50.0
Alkaline Phosphatase (ALP) (Multipoint-Rate - P-nitro Phenyl Phosphate, AMP Buffer)	136 H	U/L	38.0-126.0
Gamma Glutamyl Transferase (GGT) (Multipoint Rate - L-glutamyl-p-nitroanilide (Szasz Method))	46	U/L	15.0-73.0

Interpretation Notes

- Indirect Bilirubin result is a calculated parameter (Indirect Bilirubin = Total Bilirubin - Direct Bilirubin). Indirect bilirubin result includes the delta bilirubin fraction also. Delta Bilirubin is the bilirubin which is covalently bound to albumin. Delta Bilirubin is not expected to be present in healthy adults or neonates.

THYROID PROFILE (T3, T4, TSH)

Tri Iodo Thyronine (T3) (Enhanced Chemiluminescence)	1.45	ng/mL	0.97-1.69
Thyroxine (T4) (Enhanced Chemiluminescence)	8.10	µg/dl	5.53-11.0
TSH (Thyroid Stimulating Hormone) (Enhanced Chemiluminescence)	3.581	µIU/mL	0.4-4.049

Interpretation Notes

- TSH levels are subjected to circadian variation, reaching peak levels between 2 - 4.a.m. and at a minimum between 6-10 pm . The variation is of the order of 50% , hence time of the day has influence on the measured serum TSH concentrations. Alteration in concentration of Thyroid hormone binding protein can profoundly affect Total T3 and/or Total T4 levels especially in pregnancy and in patients on steroid therapy. Unbound fraction (Free,T4 /Free,T3) of thyroid hormone is biologically active form and correlate more closely with clinical status of the patient than total T4/T3 concentration.

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Dr. Anushre Prasad
MBBS,MD, Biochemistry
Consultant Biochemistry



Mrs. Latha B S
MSc, Mphil, Biochemistry
Incharge, Consultant Biochemistry

HEMATOLOGY

Test	Result	Unit	Biological Reference Interval
Erythrocyte Sedimentation Rate (ESR) (Westergren Method)	4	mm/1hr	0.0-10.0

Interpretation Notes

- ESR high - Infections, chronic disorders,, plasma cell dyscrasias.

DISCLAIMER:All the laboratory findings should mandatorily interpreted in correlation with clinical findings by a medical expert



Dr. Sudarshan Chougule
MBBS, MD, Pathology
Consultant & Head - Hematology & Flow Cytometry

HEMATOLOGY

Test	Result	Unit	Biological Reference Interval
COMPLETE BLOOD COUNT (CBC)			
Haemoglobin (Hb%) (Photometric Measurement)	16.5	g/dL	13.0-17.0
Red Blood Cell Count (Electrical Impedance)	5.32	million/ μ l	4.5-5.5
PCV (Packed Cell Volume) / Hematocrit (Calculated)	49.9	%	40.0-50.0
MCV (Mean Corpuscular Volume) (Derived)	93.7	fL	83.0-101.0

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MCH (Mean Corpuscular Haemoglobin) (Calculated)	31.0	pg	27.0-32.0
MCHC (Mean Corpuscular Haemoglobin Concentration) (Calculated)	33.1	%	31.5-34.5
Red Cell Distribution Width (RDW) (Derived)	13.3	%	11.6-14.0
Platelet Count (Electrical Impedance Plus Microscopy)	344	10 ³ /μL	150.0-450.0
Mean Platelet Volume (MPV)	7.9	fL	7.0-11.7
Total Leucocyte Count(WBC) (Electrical Impedance)	7.1	10 ³ /μL	4.0-10.0
DIFFERENTIAL COUNT (DC)			
Neutrophils (VCS Technology Plus Microscopy)	61.7	%	40.0-75.0
Lymphocytes (VCS Technology Plus Microscopy)	28.1	%	20.0-40.0
Monocytes (VCS Technology Plus Microscopy)	8.7	%	2.0-10.0
Eosinophils (VCS Technology Plus Microscopy)	1.0	%	1.0-6.0
Basophils (VCS Technology Plus Microscopy)	0.5	%	0.0-2.0
Absolute Neutrophil Count (Calculated)	4.39	x10 ³ cells/μl	2.0-7.0
Absolute Lymphocyte Count (Calculated)	2.0	x10 ³ cells/μl	1.0-3.0
Absolute Monocyte Count (Calculated)	0.62	x10 ³ cells/μl	0.2-1.0
Absolute Eosinophil Count (Calculated)	0.08	x10 ³ cells/μl	0.02-0.5
Absolute Basophil Count (Calculated)	0.04	-	-

As per the recommendation of International Council for Standardization in Hematology, the differential counts are additionally being reported as absolute numbers.

Interpretation Notes

- Haemoglobin , RBC Count and PCV: If below reference range, indicates Anemia. Further evaluation is suggested .
RBC Indices aid in typing of anemia.
WBC Count: If below reference range, susceptibility to infection.

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If above reference range- Infection*
 If very high in lakhs-Leukemia
 Neutrophils -If above reference range-acute infection, mostly bacterial
 Lymphocytes -If above reference range-chronic infection/ viral infection
 Monocytes -If above reference range- TB,Typhoid,UTI
 Eosinophils -If above reference range -Allergy,cough,Common cold,Asthma & worms
 Basophils - If above reference range, Leukemia, allergy
 Platelets: If below reference range- bleeding disorder, Dengue, drug- induced, malignancies
 * In bacterial infection with fever total WBC count increases.
 Eg Tonsillitis,Sinusitis,Bronchitis,Pneumonia,Appendicitis,UTI -12000-25000 cells/cumm.
 In typhoid and viral fever WBC may be normal.

DISCLAIMER:All the laboratory findings should mandatorily interpreted in correlation with clinical findings by a medical expert.



Dr. Hema S
 MD, DNB, Pathology
 Associate Consultant

NARAYANA HRUDAYALAYA BLOOD CENTRE

Test	Result	Unit
BLOOD GROUP & RH TYPING		
Blood Group (Column Agglutination Technology)	B	-
RH Typing (Column Agglutination Technology)	Positive	-



Dr. Prathip Kumar B R
 MBBS,MD, Immunohaematology & Blood Transfusion
 Consultant

CLINICAL PATHOLOGY

Test	Result	Unit
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Patient Name : Mr Nagaraju G MRN : 20110000013360 Gender/Age : MALE , 34y (14/07/1989)

Urine For Sugar (Post Prandial) (Enzyme Method (GOD POD)) Not Present -

--End of Report--



Dr. Sudarshan Chougule
MBBS, MD, Pathology
Consultant & Head - Hematology & Flow Cytometry

Note

- Abnormal results are highlighted.
 - Results relate to the sample only.
 - Kindly correlate clinically.
- (Fasting Blood Sugar (FBS), -> Auto Authorized)
(Lipid Profile, -> Auto Authorized)
(CR, -> Auto Authorized)
(LFT, -> Auto Authorized)
(, -> Auto Authorized)
(Uric Acid, -> Auto Authorized)
(Blood Urea Nitrogen (Bun), -> Auto Authorized)
(Post Prandial Blood Sugar (PPBS) -> Auto Authorized)



Patient Name : Mr.Nagaraju G

Patient ID : 20110000013360

Age : 34Years

Sex : Male

Referring Doctor : EHP

Date : 05 .09.2023

ULTRASOUND ABDOMEN AND PELVIS

FINDINGS:

Liver is normal in size and shows **increased with calcification in right lobe posterior segment** echopattern. No intra or extra hepatic biliary duct dilatation.

Portal vein is normal in size, course and caliber. CBD is not dilated.

Gall bladder is normal without evidence of calculi, wall thickening or pericholecystic fluid.

Pancreas to the extent visualized, appears normal in size, contour and echogenicity.

Spleen is normal in size , shape, contour and echogenicity. No evidence of mass or focal lesions.

Right Kidney is normal in size (measures 10.1 cm in length & 1.7 cm in parenchymal thickness), position, shape and echopattern. Corticomedullary differentiation is maintained. No evidence of calculi or hydronephrosis.

Left Kidney is normal in size (measures 9.9 cm in length & 1.4cm in parenchymal thickness), position, shape and echopattern. Corticomedullary differentiation is maintained. No evidence of calculi or hydronephrosis.

Retroperitoneum – Obscured by bowel gas.

Urinary Bladder is **Partially distended**. Wall thickness is normal. No evidence of calculi, mass or mural lesion.

Prostate is normal in echopattern and normal in size, measures 3.0x3.1x3.0 cm Volume - 15 cc.

Fluid - There is no ascites or pleural effusion.

IMPRESSION:

- **Grade I Fatty Liver with calcification**


Dr B S Ramkumar 35772
Consultant Radiologist

Disclaimer:

Note: Investigations have their limitations. Solitary pathological/Radiological and other investigations never confirm the final diagnosis. They only help in diagnosing the disease in correlation to clinical symptoms and other related tests. Please interpret accordingly. This Report is not for Medico - Legal Purposes.



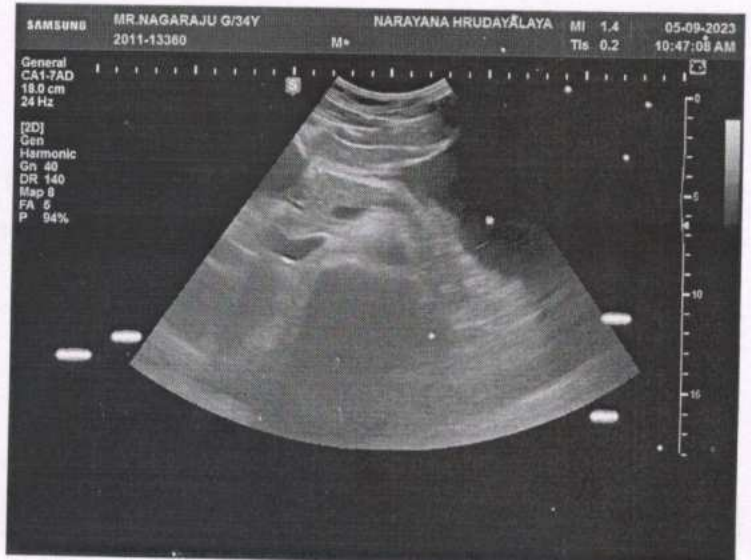
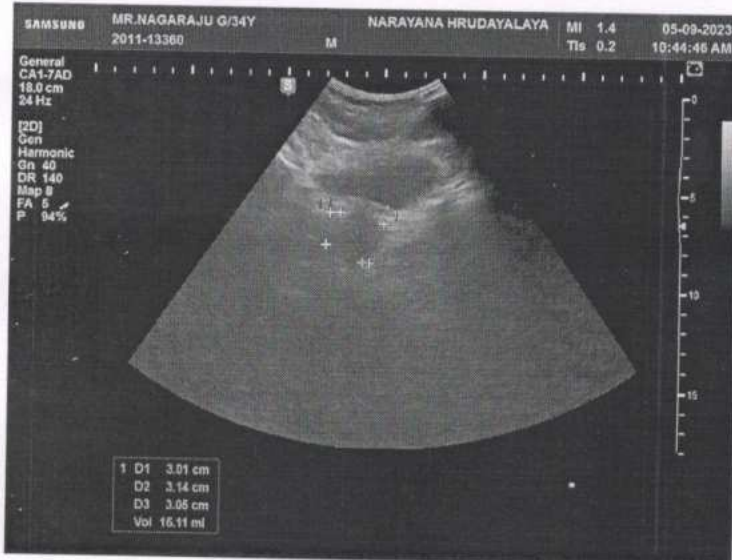
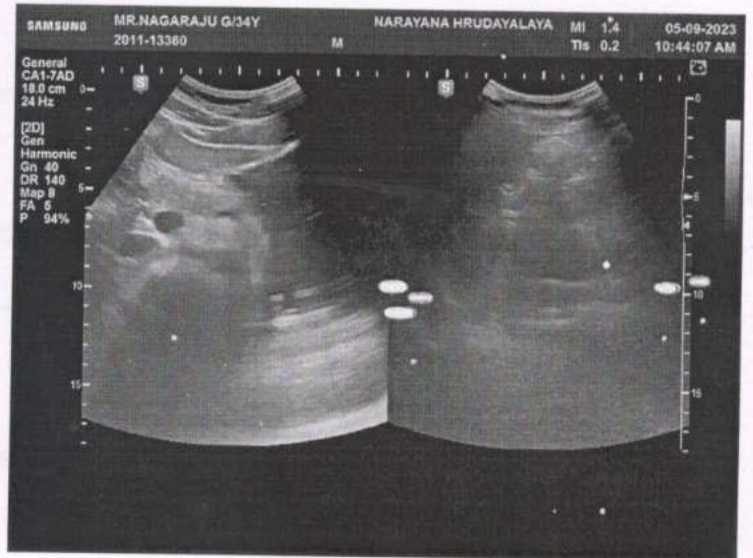
Exam

Name
Birth Date
Gender

2011-13360
MR.NAGARAJU G/34Y
Male

Accession #
Exam Date
Description
Operator

05-09-2023



ADULT TRANS-THORACIC ECHO REPORT

NAME : MR.NAGARAJU G

AGE/SEX : 34YRS/MALE

MRN NO : 20110000013360

DATE : 05.09.2023

FINAL DIAGNOSIS:

- NORMAL CHAMBER DIMENSIONS
- NO RWMA
- NORMAL VALVES
- MR-MILD
- NORMAL PA PRESSURE
- NORMAL RV/LV FUNCTION
- LVEF- 60%

MEASUREMENTS

AO: 26 MM

LVID (d) : 45 MM

IVS (d) : 10 MM

RA : 32 MM

LA: 34 MM

LVID(s) : 31 MM

PW (d) : 10 MM

RV : 28 MM

EF: 60 %

VALVES

MITRAL VALVE : NORMAL

AORTIC VALVE : NORMAL

TRICUSPID VALVE : NORMAL

PULMONARY VALVE : NORMAL

CHAMBERS

LEFT ATRIUM : NORMAL

RIGHT ATRIUM : NORMAL

LEFT VENTRICLE : NORMAL, NORMAL LV FUNCTION

RIGHT VENTRICLE : NORMAL, TAPSE-20 MM, NORMAL RV FUNCTION

RVOT/LVOT : NORMAL



SEPTAE

IVS : INTACT
IAS : INTACT

GREAT ARTERIES

AORTA : NORMAL, AORTIC ANNULUS-20 MM, LEFT ARCH
PULMONARY ARTERY : NORMAL

DOPPLER DATA

MITRAL VALVE : E/A - 0.9/0.8 M/S, MR-MILD
AORTIC VALVE : PG- 4 MMHG
TRICUSPID VALVE : TR-TRIVIAL, PASP- 23 MMHG
PULMONARY VALVE : PG- 3 MMHG

WALL MOTION ABNORMALITIES: NO RWMA

PERICARDIUM : NORMAL
VEGETATION/THROMBUS: ABSENT

OTHER FINDINGS

IVC- 14 MM, NORMAL SIZED, COLLAPSIBILITY >50%, RAP -3 MM
SINUS RHYTHM/ HR- 82 BPM

DR.P V SURESH
CONSULTANT CARDIOLOGIST


VISHALAKSHI H R
CARDIAC SONOGRAPHER

ИИ МУЛТИСЪЕСИМЛІУ СЛИИС - ЈАУАИАСАР
MR INCEVAJU C 2011 4380 M 02 00 5053 15 23 FM





MILESTONES

VISUAL DEVELOPMENT CENTER

105, 7th main , Jayanagar 4th block, Near Maiyas Restaurant, Bengaluru- 560 011.

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Evaluation

5/9/23

Name : Nagaraju. G.
Age : 34
Gender : male
MRD No : 13360
Chief Complaint :
Regular check-up.

Ocular History

no using glasses

General History

VISION

Distance:

Pinhole:

Near:

OD

6/6

N6

OS

6/6

N6

Objective Refraction:

EYE	Sph	Cyl	Axis
OD	-0.75	-2.00	180
OS	-1.00	-1.25	80

Subjective Refraction:

EYE	Sph	Cyl	Axis
OD	-0.50	-1.75	100 6/6
OS	-1.25	-1.25	80 6/6

Slit lamp Examination :

OU - WNL

Diagnosis and Advise : *Refractive Error.*

GP : *Can't see glasses*

Milestones
Visual Development Center
No. 105, 7th Main,
Near Malayas Restaurant, 4th Block,
Jayanagar, Bangalore-560 011