Suraksha DIAGNOSTICS

Lab No.	: BOR/10-08-2024/SR9498718	**Lab Add.**	: Kamini Center, Boring Pataliputra Road, Patna - 800013
Patient Name	: MEGHA SINGH	**Ref Dr.**	: Dr.MEDICAL OFFICER
Age	: 29 Y 0 M 0 D	**Collection Date**	: 10/Aug/2024 09:15AM
Gender	: F	Report Date	: 10/Aug/2024 02:21PM

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
SGPT/ALT , *GEL SERUM* (Method:UV P5P)	26	7-40 U/L	U/L
***URIC ACID, URINE, SPOT URINE**			
URIC ACID, SPOT URINE (Method:URICASE)	10.2	37-92 mg/dL	mg/dL
***BILIRUBIN (TOTAL) ,** *GEL SERUM*			
BILIRUBIN (TOTAL) (Method:JENDRASSIK GROF METHOD)	0.55	0.3-1.2 mg/dL	mg/dL
***LIPID PROFILE ,** *GEL SERUM*			
CHOLESTEROL-TOTAL (Method:CHOLESTEROL OXIDASE ESTERASE PEROXIDASE METHOD)	174	Desirable: < 200 mg/dL Borderline high: 200-239 mg/dL High: > or =240 mg/dL	mg/dL
TRIGLYCERIDES (Method:ENZYMATIC METHOD)	114	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	mg/dL
HDL CHOLESTEROL (Method:DIRECT MEASURE PEG)	57	< 40 - Low 40-59- Optimum 60 - High	mg/dl
LDL CHOLESTEROL DIRECT (Method:DIRECT MEASURE)	98	OPTIMAL : <100 mg/dL, Near optimal/ above optimal : 100-129 mg/dL, Borderline high : 130-159 mg/dL, High : 160-189 mg/dL, Very high : >=190 mg/dL	mg/dL
VLDL (Method:Calculated)	19	< 40 mg/dl	mg/dL
CHOL HDL Ratio (Method:Calculated)	**3**	LOW RISK 3.3-4.4 AVERAGE RISK 4.47-7.1 MODERATE RISK 7.1-11.0 HIGH RISK >11.0	
ALKALINE PHOSPHATASE (Method:PNPP ,AMP BUFFER)	**126**	46-116 U/L	U/L
SGOT/AST (Method:UV P5P)	19	13-40 U/L	U/L
POTASSIUM,BLOOD (Method:ISE INDIRECT)	4.2	3.5 - 5.1	mEq/L
UREA,BLOOD (Method:UREASE)	**13**	19 - 49	mg/dL
GLUCOSE,FASTING (Method:HEXOKINASE METHOD)	99	Impaired Fasting-100-125 Diabetes- >= 126 Fasting is defined as no caloric intake for at least 8 hours.	mg/dL
CALCIUM,BLOOD (Method:OCPC METHOD)	**8.5**	8.7-10.4 mg/dL	mg/dL
URIC ACID,BLOOD (Method:URICASE METHOD)	3.02	2.6-6.0	mg/dL

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DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
***GLYCATED HAEMOGLOBIN (HBA1C) ,** *EDTA WHOLE BLOOD*			
GLYCATED HEMOGLOBIN (HBA1C)	4.7	***FOR BIOLOGICAL REFERENCE INTERVAL DETAILS , PLEASE REFER TO THE BELOW MENTIONED REMARKS/NOTE WITH ADDITIONAL CLINICAL INFORMATION ***	%
HbA1c (IFCC) (Method:HPLC)	28		mmol/mol

Clinical Information and Laboratory clinical interpretation on Biological Reference Interval:
Low risk / Normal / non-diabetic : <5.7% (NGSP) / < 39 mmol/mol (IFCC)
Pre-diabetes/High risk of Diabetes : 5.7%- 6.4% (NGSP) / 39 - < 48 mmol/mol (IFCC)
Diabetics-HbA1c level : >/= 6.5% (NGSP) / > 48 mmol/mol (IFCC)

Analyzer used : Bio-Rad D 10
Method : HPLC Cation Exchange

HbA1C : DUAL REPORTING OF UNITS [Ref 2,3,4]
Suraksha Diagnostic Pvt. Ltd. has commenced reporting HbA1c in dual units. This is in keeping with current International recommendations to allow a transition phase from current reporting units (%) to the eventual (IFCC) units (mmol/mol). It is anticipated that only IFCC units will be used after 2 years of dual reporting. Please note that the method of analysis has not changed. Although the two results look numerically different, they are clinically equivalent. In defining HbA1C, the unit mmol /mol was determined to be the most accurate description of what is being measured. This will make the measurement more precise and allow for better comparisons of HbA1c results from different laboratories and hospitals throughout the world.

Standardization & traceability [Ref 2,3,4]
HbA1c is standardized & traceable to IFCC methods HPLC-CE & HPLC-MS. This new unit (mmol/mol) is used as part of this standardization. This change in HbA1c calibration is to conform to national & international best practice. The initiative will mean that HbA1c is measured specifically & reproducibly. It also enables the use of international reference ranges & harmonization of medical decision or target values.

Recommendations for glycemic targets [Ref 1]
Ø Patients should use self-monitoring of blood glucose (SMBG) and HbA1c levels to assess glycemic control.
Ø The timing and frequency of SMBG should be tailored based on patients individual treatment, needs, and goals.
Ø Patients should undergo HbA1c testing at least twice a year if they are meeting treatment goals and have stable glycemic control.
Ø If a patient changes treatment plans or does not meet his or her glycemic goals, HbA1c testing should be done quarterly.
Ø **For most adults who are not pregnant, HbA1c levels should be <7% to help reduce microvascular complications and macrovascular disease . Action suggested >8% as it indicates poor control.**
Ø Some patients may benefit from HbA1c goals that are more or less stringent.

Result alterations in the estimation has been established in many circumstances, such as after acute/ chronic blood loss, for example, after surgery, blood transfusions, hemolytic anemia, or high erythrocyte turnover; vitamin B_{12}/ folate deficiency, presence of chronic renal or liver disease; after administration of high-dose vitamin E / C; or erythropoietin treatment.

Reference: Glycated hemoglobin monitoring BMJ 2006; 333;586-8

References:
1. Chamberlain JJ, Rhinehart AS, Shaefer CF, et al. Diagnosis and management of diabetes: synopsis of the 2016 American Diabetes Association Standards of Medical Care in Diabetes. Ann Intern Med. Published online 1 March 2016. doi:10.7326/M15-3016.
2. Mosca A, Goodall I, Hoshino T, Jeppsson JO, John WG, Little RR, Miedema K, Myers GL, Reinauer H, Sacks DB, Weykamp CW. International Federation of Clinical Chemistry and Laboratory Medicine, IFCC Scientific Division. Global standardization of glycated hemoglobin measurement: the position of the IFCC Working Group. Clin Chem Lab Med. 2007;45(8):1077-1080.

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DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit

3. Geistanger A, Arends S, Berding C, Hoshino T, Jeppsson J-O, Little R, Siebelder C and Weykamp C, on behalf of the IFCC Working Group on Standardization of HbA1c: Statistical Methods for Monitoring the Relationship between the IFCC Reference Measurement Procedure for Hemoglobin A1c ..Clin Chem 2008; 54(8): 1379-8.

4. International Expert Committee Report, drawn from the International Diabetes Federation (IDF), the European Association for the Study of Diabetes (EASD),American Diabetes Association (ADA), International Federation of Clinical Chemistry and Laboratory Medicine, International Society for Pediatric & Adolescent Diabetes. International Congress - IFCC, WorldLab, EuroMedLab- Berlin,2011.

Clinical Information and Laboratory clinical interpretation on Biological Reference Interval:
Low risk / Normal / non-diabetic : <5.7% (NGSP) / < 39 mmol/mol (IFCC)
Pre-diabetes/High risk of Diabetes : 5.7%- 6.4% (NGSP) / 39 - < 48 mmol/mol (IFCC)
Diabetics-HbA1c level : >/= 6.5% (NGSP) / > 48 mmol/mol (IFCC)

Analyzer used :- Bio-Rad-VARIANT TURBO 2.0
Method : HPLC Cation Exchange

Recommendations for glycemic targets
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Ø The timing and frequency of SMBG should be tailored based on patients' individual treatment, needs, and goals.
Ø Patients should undergo HbA1c testing at least twice a year if they are meeting treatment goals and have stable glycemic control.
Ø If a patient changes treatment plans or does not meet his or her glycemic goals, HbA1c testing should be done quarterly.
Ø **For most adults who are not pregnant, HbA1c levels should be <7% to help reduce microvascular complications and macrovascular disease . Action suggested >8% as it indicates poor control.**
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Result alterations in the estimation has been established in many circumstances, such as after acute/ chronic blood loss, for example, after surgery, blood transfusions, hemolytic anemia, or high erythrocyte turnover; vitamin B_{12}/ folate deficiency, presence of chronic renal or liver disease; after administration of high-dose vitamin E / C; or erythropoietin treatment.
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PDF Attached

BILIRUBIN (DIRECT) (Method:DIAZOTIZATION METHOD)	0.11	<0.2 mg/dL	mg/dL
CREATININE, BLOOD (Method:ALKALINE PICRATE KINETIC)	0.56	0.5-1.1	mg/dL
***TOTAL PROTEIN [BLOOD] ALB:GLO RATIO ,** .			
TOTAL PROTEIN (Method:BIURET,SERUM BLANK, END POINT)	7.4	5.7-8.2	g/dL
ALBUMIN (Method:BROMO-CRESOL PURPLE)	4	3.2-4.8 g/dL	g/dL
GLOBULIN (Method:Calculated)	**3.44**	1.8-3.2	g/dl
AG Ratio (Method:Calculated)	1.15	1.0 - 2.5	
CHLORIDE,BLOOD (Method:ISE INDIRECT)	103	98 - 107	mEq/L
***THYROID PANEL (T3, T4, TSH) ,** *GEL SERUM*			
T3-TOTAL (TRI IODOTHYRONINE) (Method:CLIA)	0.96	0.60-1.81 ng/ml	ng/ml
T4-TOTAL (THYROXINE) (Method:CLIA)	9.9	3.2-12.6	µg/dL

Suraksha DIAGNOSTICS

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DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
TSH (THYROID STIMULATING HORMONE) (Method:CLIA)	**5.65**	0.55-4.78	µIU/mL

BIOLOGICAL REFERENCE INTERVAL : *[ONLY FOR PREGNANT MOTHERS]*

Trimester specific TSH LEVELS during pregnancy:

FIRST TRIMESTER : 0.10 2.50 µ IU/mL
SECOND TRIMESTER :0.20 3.00 µ IU/mL
THIRD TRIMESTER :0.30 3.00 µ IU/mL

References :

1.*Indian Thyroid Society guidelines for management of thyroid dysfunction during pregnancy. Clinical Practice Guidelines, New Delhi: Elsevier; 2012.*

2.Stagnaro-Green A, Abalovich M, Alexander E, Azizi F, Mestman J, Negro R, et al. Guidelines of the American Thyroid Association for the Diagnosis and Management of Thyroid Disease During Pregnancy and Postpartum. Thyroid 2011;21:1081-25.

3.Dave A, Maru L, Tripathi M. Importance of Universal screening for thyroid disorders in first trimester of pregnancy. Indian J Endocr Metab [serial online] 2014 [cited 2014 Sep 25];18:735-8. Available from: http://www.ijem.in/text.asp?2014/18/5/735/139221.

PHOSPHORUS-INORGANIC,BLOOD (Method:PHOSPHOMOLYBDATE)	2.9	2.4-5.1 mg/dL	mg/dL
SODIUM,BLOOD (Method:ISE INDIRECT)	**135**	136 - 145	mEq/L

***** End Of Report *****

Dr S. C. Jha
MBBS MD (PATH)
SENIOR CONSULTANT
PATHOLOGIST & HEMATOLOGIST

Suraksha DIAGNOSTICS

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Gender	**:** F	Report Date	**:** 10/Aug/2024 01:02PM

DEPARTMENT OF HAEMATOLOGY

Test Name	Result	Bio Ref. Interval	Unit
***ESR (ERYTHROCYTE SEDIMENTATION RATE) ,** *EDTA WHOLE BLOOD*			
1stHour (Method:Westergren)	**30**	0.00 - 20.00 mm/hr	mm/hr
***CBC WITH PLATELET (THROMBOCYTE) COUNT ,** *EDTA WHOLE BLOOD*			
HEMOGLOBIN (Method:PHOTOMETRIC)	12.4	12 - 15	g/dL
WBC (Method:DC detection method)	6.8	4 - 10	*10^3/µL
RBC (Method:DC detection method)	4.38	3.8 - 4.8	*10^6/µL
PLATELET (THROMBOCYTE) COUNT (Method:DC detection method/Microscopy)	237	150 - 450*10^3	*10^3/µL
DIFFERENTIAL COUNT			
NEUTROPHILS (Method:Flowcytometry/Microscopy)	72	40 - 80 %	%
LYMPHOCYTES (Method:Flowcytometry/Microscopy)	23	20 - 40 %	%
MONOCYTES (Method:Flowcytometry/Microscopy)	02	2 - 10 %	%
EOSINOPHILS (Method:Flowcytometry/Microscopy)	03	1 - 6 %	%
BASOPHILS (Method:Flowcytometry/Microscopy)	00	0-0.9%	%
CBC SUBGROUP			
HEMATOCRIT / PCV (Method:Calculated)	39.2	36 - 46 %	%
MCV (Method:Calculated)	89.4	83 - 101 fl	fl
MCH (Method:Calculated)	28.3	27 - 32 pg	pg
MCHC (Method:Calculated)	31.6	31.5-34.5 gm/dl	gm/dl
RDW - RED CELL DISTRIBUTION WIDTH (Method:Calculated)	**15.4**	11.6-14%	%
PDW-PLATELET DISTRIBUTION WIDTH (Method:Calculated)	21.1	8.3 - 25 fL	fL
MPV-MEAN PLATELET VOLUME (Method:Calculated)	10.5	7.5 - 11.5 fl	
RBC	NORMOCYTIC NORMOCHROMIC.		
WBC.	NORMAL IN NUMBER & MORPHOLOGY		
PLATELET	ADEQUATE.		
***BLOOD GROUP ABO+RH [GEL METHOD] ,** *EDTA WHOLE BLOOD*			
ABO (Method:Gel Card)	O		
RH (Method:Gel Card)	POSITIVE		

TECHNOLOGY USED: GEL METHOD

ADVANTAGES :

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DEPARTMENT OF HAEMATOLOGY

Test Name	Result	Bio Ref. Interval	Unit

- Gel card allows simultaneous forward and reverse grouping.
- Card is scanned and record is preserved for future reference.
- Allows identification of Bombay blood group.
- Daily quality controls are run allowing accurate monitoring.

Historical records check not performed.

***** End Of Report *****

Dr S. C. Jha
MBBS MD (PATH)
SENIOR CONSULTANT
PATHOLOGIST & HEMATOLOGIST

Lab No.	**:** BOR/10-08-2024/SR9498718	**Lab Add.**	**:** Off Patliputra, Patna
Patient Name	: MEGHA SINGH	**Ref Dr.**	: Dr.MEDICAL OFFICER
Age	**:** 29 Y 0 M 0 D	**Collection Date**	**:**
Gender	**:** F	Report Date	**:** 10/Aug/2024 04:54PM

DEPARTMENT OF X-RAY

DEPARTMENT OF RADIOLOGY
X-RAY REPORT OF CHEST (PA)

FINDINGS :

No active lung parenchymal lesion is seen.

Both the hila are normal in size, density and position.

Mediastinum is central. Trachea is in midline.

Domes of diaphragm are smoothly outlined. Position is within normal limits.

Lateral costo-phrenic angles are clear.

The cardio-thoracic ratio is normal.

Bony thorax reveals no definite abnormality.

IMPRESSION :

Normal study.

***** End Of Report *****

DR. Mozammil Rabbani
MBBS., MD(Radiodiagnosis)
Consultant Radiologist
Registration No: 46973

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Age	: 29 Y 0 M 0 D	**Collection Date**	: 10/Aug/2024 10:15AM
Gender	: F	Report Date	: 10/Aug/2024 02:04PM

DEPARTMENT OF CLINICAL PATHOLOGY

Test Name	Result	Bio Ref. Interval	Unit
***URINE ROUTINE ALL, ALL ,** *URINE*			
PHYSICAL EXAMINATION			
COLOUR	PALE YELLOW		
APPEARANCE	SLIGHTLY HAZY		
CHEMICAL EXAMINATION			
pH (Method:Dipstick (triple indicator method))	8	4.6 - 8.0	
SPECIFIC GRAVITY (Method:Dipstick (ion concentration method))	1.010	1.005 - 1.030	
PROTEIN (Method:Dipstick (protein error of pH indicators)/Manual)	NEGATIVE	NOT DETECTED	
GLUCOSE (Method:Dipstick(glucose-oxidase-peroxidase method)/Manual)	NEGATIVE	NOT DETECTED	
KETONES (ACETOACETIC ACID, ACETONE) (Method:Dipstick (Legals test)/Manual)	NEGATIVE	NOT DETECTED	
BLOOD (Method:Dipstick (pseudoperoxidase reaction))	NEGATIVE	NOT DETECTED	
BILIRUBIN (Method:Dipstick (azo-diazo reaction)/Manual)	NEGATIVE	NEGATIVE	
UROBILINOGEN (Method:Dipstick (diazonium ion reaction)/Manual)	NEGATIVE	NEGATIVE	
NITRITE (Method:Dipstick (Griess test))	NEGATIVE	NEGATIVE	
LEUCOCYTE ESTERASE (Method:Dipstick (ester hydrolysis reaction))	NEGATIVE	NEGATIVE	
MICROSCOPIC EXAMINATION			
LEUKOCYTES (PUS CELLS) (Method:Microscopy)	01-02	0-5	/hpf
EPITHELIAL CELLS (Method:Microscopy)	03-04	0-5	/hpf
RED BLOOD CELLS (Method:Microscopy)	NEGATIVE	0-2	/hpf
CAST (Method:Microscopy)	NEGATIVE	NOT DETECTED	
CRYSTALS (Method:Microscopy)	NEGATIVE	NOT DETECTED	
BACTERIA (Method:Microscopy)	NEGATIVE	NOT DETECTED	
YEAST (Method:Microscopy)	NEGATIVE	NOT DETECTED	
OTHERS	NEGATIVE		

Note:

1. All urine samples are checked for adequacy and suitability before examination.
2. Analysis by urine analyzer of dipstick is based on reflectance photometry principle. Abnormal results of chemical examinations are confirmed by manual methods.
3. The first voided morning clean-catch midstream urine sample is the specimen of choice for chemical and microscopic analysis.
4. Negative nitrite test does not exclude urinary tract infections.
5. Trace proteinuria can be seen in many physiological conditions like exercise, pregnancy, prolonged recumbency etc.
6. False positive results for glucose, protein, nitrite, urobilinogen, bilirubin can occur due to use of certain drugs, therapeutic dyes, ascorbic acid, cleaning agents used in urine collection container.
7. Discrepancy between results of leukocyte esterase and blood obtained by chemical methods with corresponding pus cell and red blood cell count by microscopy can

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DEPARTMENT OF CLINICAL PATHOLOGY

Test Name	Result	Bio Ref. Interval	Unit

occur due to cell lysis.

8. Contamination from perineum and vaginal discharge should be avoided during collection, which may falsely elevate epithelial cell count and show presence of bacteria and/or yeast in the urine.

***** End Of Report *****

Dr S. C. Jha
MBBS MD (PATH)
SENIOR CONSULTANT
PATHOLOGIST & HEMATOLOGIST

Suraksha DIAGNOSTICS

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Gender	**:** F	Report Date	**:** 10/Aug/2024 11:54AM

DEPARTMENT OF CARDIOLOGY

E.C.G. REPORT

DATA HEART RATE	63	Bpm
PR INTERVAL	140	Ms
QRS DURATION	68	Ms
QT INTERVAL	370	Ms
QTC INTERVAL	381	Ms
AXIS P WAVE	38	Degree
QRS WAVE	66	Degree
T WAVE	33	Degree
IMPRESSION	:	**Within normal limits.**

***** End Of Report *****

DR.KAUSHIK SAHA
MBBS,DTCD,MD
CONSULTANT PULMONOLIST

Lab No.	**:** BOR/10-08-2024/SR9498718	**Lab Add.**	**:** Off Patliputra, Patna
Patient Name	: MEGHA SINGH	**Ref Dr.**	: Dr.MEDICAL OFFICER
Age	**:** 29 Y 0 M 0 D	**Collection Date**	**:**
Gender	**:** F	Report Date	**:** 10/Aug/2024 12:32PM

DEPARTMENT OF ULTRASONOGRAPHY

ULTRASONOGRAPHY OF WHOLE ABDOMEN

LIVER: Normal in shape, size (12.2 cm) and parenchymal echopattern. No focal lesion of altered echogenicity is seen. Intrahepatic biliary radicles are not dilated. The portal vein branches and hepatic veins are normal.

GALL BLADDER: Well distended lumen shows no intraluminal calculus or mass. Wall thickness is normal. No pericholecystic collection or mass formation is noted.

PORTA HEPATIS: The portal vein is normal in caliber with clear lumen. The common bile duct is normal in caliber. Visualized lumen is clear. Common bile duct measures approx 0.4 cm in diameter.

PANCREAS: It is normal in shape, size and echopattern. Main pancreatic duct is not dilated. No focal lesion of altered echogenicity is seen. The peripancreatic region shows no abnormal fluid collection.

SPLEEN: It is normal in shape, size (8.3 cm) and shows homogeneous echopattern. No focal lesion is seen. No abnormal venous dilatation is seen in the splenic hilum.

KIDNEYS: Both Kidneys are normal in shape, size and position. Cortical echogenicity and thickness are normal with normal cortico-medullary differentiation in both kidneys. No calculus, hydronephrosis or mass is noted. The perinephric region shows no abnormal fluid collection.

RIGHT KIDNEY measures 8.2 cm **LEFT KIDNEY** measures 10.7 cm

URETER: Both ureters are not dilated. No calculus is noted in either side.

PERITONEUM & RETROPERITONEUM: The aorta and IVC are normal. Lymph nodes are not enlarged. No free fluid is seen in peritoneum.

URINARY BLADDER: It is adequately distended providing optimum scanning window. The lumen is clear and wall thickness is normal. Post voiding study shows insignificant residual urine volume.

UTERUS: It is normal in shape, size (8.7 cm)and echopattern. No focal myometrial lesion is seen. Endometrial echo is in midline. Double layer of endometrial echo measures 1.5 mm . Endometrial cavity is empty. Cervix is normal.

ADNEXA: No adnexal SOL is noted.

RIGHT OVARY is normal in shape, size and echopattern.

LEFT OVARY is normal in shape, size and echopattern.

POD : Trace fluid is seen.

IMPRESSION:

Trace free fluid in POD , Rest Study within normal limits

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Gender	**:** F	Report Date	**:** 10/Aug/2024 12:32PM

DEPARTMENT OF ULTRASONOGRAPHY

Kindly note

- ***Ultrasound is not the modality of choice to rule out subtle bowel lesion.***
- ***Please Intimate us for any typing mistakes and send the report for correction within 7 days.***
- *The science of Radiological diagnosis is based on the interpretation of various shadows produced by both the normal and abnormal tissues and are not always conclusive. Further biochemical and radiological investigation & clinical correlation is required to enable the clinician to reach the final diagnosis.*

The report and films are not valid for medico-legal purpose.

Patient Identity not verified.

M Rabbani

DR. Mozammil Rabbani
MBBS., MD(Radiodiagnosis)
Consultant Radiologist
Registration No: 46973