

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 19-Nov-2020

RADIO DIAGNOSIS, PAPER - I

1. Imaging in bone tumours.
2. Describe about basic interaction of x-rays with matter.
3. Rheumatoid arthritis.
4. Grid.
5. Thyroid scintigraphy.
6. Artifacts in ultrasound.
7. Retroperitoneum imaging anatomy.
8. MRI contrast agents.
9. Anatomy of Biliary tree and investigations for evaluation.
10. Management of adverse contrast media reactions.

M.D. Degree Examination - 21-Nov-2020

RADIO DIAGNOSIS, PAPER - II

1. What are the causes of acute respiratory distress in a neonate and discuss their imaging features.
2. Discuss radiological anatomy of gastro-esophageal junction and radiological features of hiatus hernia
3. CT enteroclysis.
4. Discuss types of choledochal cysts and imaging features.
5. Write in detail about imaging features of acute necrotizing pancreatitis. Add a note on revised Atlanta classification of acute pancreatitis
6. Role of plain radiography in acute abdomen.
7. Discuss imaging findings in adrenal adenoma and adrenal carcinoma.
8. Transjugular intrahepatic portosystemic shunt.
9. Discuss anatomy of retroperitoneal spaces. Add a note on retroperitoneal fibrosis.
10. Imaging features of pulmonary hydatid disease.

M.D. Degree Examination - 23-Nov-2020

RADIO DIAGNOSIS, PAPER - III

1. Describe the ultrasound, CT versus MR angiography of carotid vessels.
2. Enumerate congenital anomalies of IVC, role of imaging.
3. What are the causes of medially displaced ureters? Discuss various associations, IVU, CT and MRI findings in RPF.
4. Enumerate the causes of hematuria in a 50 yrs old male patient, role of imaging modalities in diagnosis and staging of renal cell carcinoma.
5. Imaging features of CNS lymphoma and its differential diagnosis.

6. Describe the penile circulation. What are the causes of male impotence and discuss the role of color Doppler imaging impotence.
7. Classify bone tumors. Role of Conventional X-Ray in bone tumors. Discuss briefly about the Osteogenic Sarcoma.
8. Discuss the role of scintigraphy in cardiac imaging with special emphasis on myocardial perfusion and viability.
9. Discuss Lymphangiography.
10. Discuss Ultrasound features of Testicular Malignancies.

M.D. Degree Examination - 25-Nov-2020

RADIO DIAGNOSIS, PAPER - IV

1. Describe in brief spinal cord tumours and write about imaging findings.
2. Classify pituitary fossa tumours Discuss the role of imaging modalities in arriving at the diagnosis.
3. First trimester anomalies on transvaginal scanning
4. Fungal infection in the lung.
5. Mucocele of sinuses.
6. Syringomyelia.
7. Sono-Salpingography.
8. Medulloblastoma.
9. Imaging in spinal dysraphism.
10. Imaging features of Multiple Sclerosis.

Post-Graduate Diploma Examination - 19-Nov-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - I

1. Discuss the biological effects of Radiation. Enumerate the measures for Radiation protection in a diagnostic radiology department.
2. Discuss the role of imaging modalities of Avascular Necrosis.
3. Role of ultrasound in first trimester bleeding.
4. Pulmonary Sarcoidosis
5. Circle of Willis.
6. Collimator.
7. Uterine artery embolization.
8. Describe the Radiological features of Ankylosing Spondylitis.
9. Hepatic scintigraphy.
10. Fetal MRI

Post-Graduate Diploma Examination - 21-Nov-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - II

1. Briefly describe the etiopathology and imaging findings of ileocecal tuberculosis. Discuss the features that are useful to differentiate it from Crohn's disease.
2. Classify adrenal tumours and the role of CT and MRI in evaluating them
3. Doppler ultrasound versus MR angiography of carotid vessels
4. Imaging findings in tetralogy of fallot.
5. Coronary imaging
6. Radiological features of gastric malignancies.
7. Causes of upper GI bleeding and the role of intervention.
8. Characteristic pathological features of gastrointestinal stromal tumours along with the imaging findings.
9. Role of imaging in obstructive jaundice.
10. Classification and imaging of neuroendocrine tumours of pancreas.

Post-Graduate Diploma Examination - 23-Nov-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - III

1. Explain the radiological and imaging features of bladder.
2. Discuss the imaging features of cystic renal diseases.
3. Radiological and imaging features of renal tuberculosis.
4. Discuss the role of imaging in evaluation of renal transplant.
5. Imaging of male infertility.
6. Imaging of subarachnoid haemorrhage.
7. Role of ultrasound and Doppler in ectopic pregnancy.
8. Write short notes on:
  - a. Nuchal Translucency
  - b. Polycystic ovaries
9. Imaging of Posterior cranial fossa masses in pediatric age group.
10. Radiological features of inflammations of aorta.

M.D. Degree Examination - 14-Jul-2020

RADIO DIAGNOSIS, PAPER - I

1. Sonoelastography in liver diseases
2. Describe about CT coronary angiography and Calcium scoring
3. Describe different magnets and coils in MRI
4. Describe physics of 3D and 4D ultrasound and its usefulness in clinical imaging.
5. Write short notes on:
  - a. Gout
  - b. Time gain compensation in ultrasound
  - c. Acroosteolysis
  - d. MCUG

6. Describe the principles, construction and functionalities of individual components of image Intensifier.
7. Discuss imaging anatomy of the orbit.
8. Discuss the radiation protection and isotope department.
9. What is Looser's zone? Describe the radiological appearances of the condition in which it is seen ?
10. Describe:
  - A. Cone view of Sella turcica
  - B. Frog's view of both Hips.

M.D. Degree Examination - 16-Jul-2020

RADIO DIAGNOSIS, PAPER - II

1. Choledochal cyst.
2. Describe radiological appearances of G.I. Tuberculosis.
3. Pheochromocytoma.
4. Sonographic features in portal hypertension.
5. MR enterography vs MR enteroclysis.
6. TACE
7. Describe the causes of lung collapse. Describe in brief the various conventional X-Ray and CT findings of various collapses.
8. Discuss in detail the radiological manifestations of AIDS in chest with respect to intrapulmonary changes.
9. Radiological evaluation of cavitary lung disease.
10. Write short notes on unilateral radiolucent lung.

M.D. Degree Examination - 18-Jul-2020

RADIO DIAGNOSIS, PAPER - III

1. Describe the causes of plain radiographic features of left-right shunts.
2. Ebstein's anomaly
3. Briefly describe the imaging in aorto-arteritis
4. Classify cystic diseases of the kidney, Describe the radiological and imaging features in polycystic kidney.
5. Discuss the role of radiology and imaging in the evaluation of a female infertile patient.
6. Doppler decision making tool in the management of IUGR.
7. Torsion of testis.
8. Discuss briefly various radiological interventional procedures in urinary tract.
9. Importance of 11-14 weeks pregnancy scan. Describe various parameters evaluated.
10. Multiparametric MRI in prostate malignancy.

M.D. Degree Examination - 20 -Jul-2020

RADIO DIAGNOSIS, PAPER - IV

1. Discuss PET-CT principles and clinical uses.
2. What is BIRADS ? Discuss elastography principles and clinical uses in breast lesions.
3. Role of imaging in Platybasia and Basilar Invagination.
4. Role of MRI in spinal disorders.
5. CT perfusion in Acute Stroke.
6. Discuss role of MRI in evaluation of CNS manifestations of AIDS.
7. Discuss roles of MRS in tumors of CNS.
8. Discuss role of imaging in white matter diseases.
9. Role of MRI in evaluation of Temporomandibular Joint Disorders.
10. Classify orbital tumors and discuss radiological approach to investigate the case of suspected orbital tumor.

Post-Graduate Diploma Examination - 14-Jul-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - I

1. Discuss the properties X-Rays. Enumerate common film artifacts.
2. Classify the bone tumors and describe the radiological features of osteosarcoma.
3. Duplex Ultrasonography.
4. Pulmonary Embolism.
5. Anode heel effect.
6. Paget's disease of the bone.
7. Discuss DR Vs CR.
8. Mammographic X-Ray Tube.
9. Imaging protocols in stroke.
10. ALARA.

Post-Graduate Diploma Examination - 16-Jul-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - II

1. Enumerate the causes of acute abdomen and imaging features.
2. Describe the blood supply to the Heart. Discuss the role of imaging modalities in the diagnosis of myocardial infarction.
3. Chemical shift imaging.
4. Discuss the classification and imaging features of dissection of aorta.
5. Imaging of inflammatory bowel disease.
6. Pericardial imaging.
7. Virtual colonoscopy.
8. Imaging finding of Anorectal anomalies.
9. 1.5 vs 3.0 TESLA MRI.
10. AAST grading of splenic trauma.

Post-Graduate Diploma Examination - 18-Jul-2020

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - III

1. Basic radiographic views for PNS.
2. Extra skeletal complications of Rheumatoid arthritis.
3. Emphysematous Cholecystitis
4. Radiological anatomy of craniovertebral junction.
5. Autonephrectomy.
6. Swyer-james syndrome.
7. Esthesioneuroblastoma.
8. HSG vs Sonosalpingography.
9. CT findings in Appendicitis.
10. Pneumoconiosis.

M.D. Degree Examination - 12-Nov-2019

RADIO DIAGNOSIS - PAPER - I

1. Newer ultrasound contrast agents.
2. Breast Tomosynthesis.
3. Osteopoikilosis.
4. CT Enteroclysis.
5. Radiological anatomy of dural venous sinuses.
6. Scatter Radiation.
7. Rickets.
8. MCU.
9. Radiation Hazards to radiation workers.
10. Extra intestinal manifestations of Ulcerative colitis.

M.D. Degree Examination - 14-Nov-2019

RADIO DIAGNOSIS - PAPER - II

1. Discuss about etiology and imaging features of acute chest pain in elderly adult.
2. Neurenteric cyst.
3. Bronchopleural fistula.
4. CT Arterial Portography.
5. Sigmoid volvulus.
6. Imaging findings in Mesenteric Ischemia.
7. Doppler findings in Decompensated Portal hypertension.
8. Invertogram.
9. Role of MRI in Carcinoma lung.
10. Carcinoid tumours of appendix.

M.D. Degree Examination - 16-Nov-2019  
RADIO DIAGNOSIS - PAPER - III

1. Cardiac CT and its applications,
2. Imaging of Tetralogy of Fallot.
3. Write short notes on
  - a. Adenomyosis
  - b. Endometriosis
4. Interventional radiology in hepatobiliary system.
5. Role of 3D ultrasound in detection of fetal anomalies.
6. Role of radiology in Renal hypertension.
7. Imaging of renal anomalies.
8. Write short notes on:
  - a. Scrotal Doppler
  - b. Vesicoureteral Reflux
  - c. Doppler indices of IUGR
9. Describe principles of MR Urography and its applications.
10. Discuss role of Doppler in male infertility.

M.D. Degree Examination - 18-Nov-2019

RADIO DIAGNOSIS - PAPER - IV

1. Classify and discuss the osteogenic tumours. Describe the radiological investigations to arrive at the diagnosis (osteoma, osteoid osteoma, osteoblastoma, osteosarcoma).
2. Discuss the differential diagnosis and imaging finding of posterior cranial fossa lesions in children.
3. Imaging in Neurofibromatosis.
4. Meningioma of brain - Imaging findings.
5. Imaging findings of retinoblastoma.
6. Pleomorphic adenoma of parotid gland.
7. Thyroid ophthalmopathy and its differential diagnosis.
8. Fungal sinusitis.
9. Imaging in odontogenic cyst.
10. Imaging in acute stroke.

Post-Graduate Diploma Examination - 12-Nov-2019

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - I

1. Anatomy of diaphragm and its normal variants.

2. Factors affecting contrast of a radiograph.
3. Basic principles of DSA and its applications.
4. Write short notes on:
  - a. Sequestration of lung
  - b. Towne's view of skull
  - c. Pleural calcification
  - d. half value layer
5. Write the properties of X rays and discuss the biological effect of radiation.
6. Describe the physical of Doppler and clinical applications in peripheral vascular disease.
7. Discuss briefly the CT Artefacts.
8. Digital radiography versus computed radiography.
9. Principles and applications of Multiple volumetric spiral CT.
10. Discuss the principles of MRCP and mention about MRCP versus ERCP.

Post-Graduate Diploma Examination - 14-Nov-2019

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - II

1. Plate atelectasis.
2. Differential diagnosis of RIF mass in 50-year-old patient.
3. Retroperitoneal spaces.
4. Extra lobar sequestration.
5. Abdominal cocoon.
6. Osteomyelitis sicca.
7. Grave's Disease.
8. Osteoblastoma of vertebra
9. Diastematomyelia.
10. PCOD imaging.

Post-Graduate Diploma Examination - 16-Nov-2019

Diploma in Medical Radio Diagnosis (D.M.R.D) - PAPER - III

1. Pleural nodules.
2. Ovarian hyperstimulation syndrome.
3. Pulmonary alveolar proteinosis.
4. Brain stem Gliomas.
5. Enumerate the differential diagnosis and discuss about unilateral hyperlucent lung
6. Radiological management of intussusception
7. Radiographic views of cranio-vertebral junction.
8. Retrosternal Goitre.



9. Ureteral Strictures.

10. Imaging of FESS complications.