

DNB Radiodiagnosis paper – I – June 2020 session

1. Imaging in features in stroke on CT and MRI (within 6 hours). Role of interventional management? (10 marks)
2. Principle of MR spectroscopy. What are the applications in brain? (10 marks)
3. MR imaging in breast? Technique, indication and application. (10 marks)
4. What are the types of hyperparathyroidism? Mention the imaging features in hyperparathyroidism. (10 marks)
5. Acute unilateral proptosis in a young man after trauma. Imaging features and management. (10 marks)
6. Role of HRCT and MRI in imaging of sensorineural hearing loss? (10 marks)
7. 10 year old presented with fever and right arm swelling. What are the differential diagnosis? Describe the imaging features of most probable diagnosis? (10 marks)
8. Unilateral painful limp in 14 year old? What are the differentials? Describe any 2 conditions? (10 marks)
9. Enumerate different neurocutaneous syndromes? Imaging features of any 2. (10 marks).

DNB Radiodiagnosis paper II – June 2020 session

1. Anatomy of coronary circulation? Technique, indication of coronary angiography? (10 marks)
2. CT pulmonary angiography – Technique, findings of CT pulmonary angiography in pulmonary thromboembolism? (10 marks)

3. Cardiac MRI in ischemia– technique and imaging findings (10 marks)
4. Imaging findings and indications for CT in a suspected case of COVID – 19? (10 marks)
5. Imaging in acute limb ischemia and interventions? (10 marks)
6. What are different types of collapse? Imaging findings in collapse? (10 marks)
7. Lines and tubes on a radiograph in an ICU patient? (10 marks)
8. What is hilum overly sign and cardiothoracic sign? What is the significance. (10 marks)
9. Types of traumatic diaphragmatic hernia? Difference between penetrating and blunt diaphragmatic trauma. How you differentiate between diaphragmatic hernia / eventration and diaphragmatic palsy? (10 marks)
10. Different types of aortic dissection? What are the imaging findings? (10 marks)

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DNB Radiodiagnosis paper III – June 2020 session

Each question - 10 mark

1. Ectopic pregnancy – Management algorithm, 3 mimics and radiological features?
2. Cystic pancreatic neoplasms- classification. Describe the imaging findings?
3. Draw diagram of segmental hepatic anatomy. What are the imaging findings in hepatocellular carcinoma?
4. Acute mesenteric ischemia – Diagnosis and radiological evaluation?

5. Budd chiari syndrome – Radiological features and management?
6. Draw a diagram of TNM staging of bladder carcinoma? Write the imaging findings?
7. Radiography in acute pain abdomen?
MRI features of acute pancreatitis? (5 + 5 marks)
8. What are different types of internal hernias? Described imaging findings in any 2?
9. What are the vascular complications of renal transplant? Write the pre operative evaluation of renal donor?
10. Fetal MRI – Technique, indications, advantages and limitations?

DNB RADIODIAGNOSIS – JUNE 2020 – PAPER IV

- 1.a Rotating anode xray tube-what are the advantages b. Beam restricting devices and uses (5 + 5)
- 2.a. Dual energy CT applications . B. Ultrasound artefacts (5 + 5)
3. a.What are the methods of randomization in clinical trials?
b.Predatory journal and publishing (5 + 5)
4. Ionic contrast agents classification . Describe various adverse reactions . And diagnosis and management of anaphylaxis. (10 marks)
5. What is phase contrast imaging? Describe the technique, applications, advantages and limitation (2 + 2 + 2 + 2 + 2).
6. Embolising agents types. Advantages and disadvantages?
7. Principles of CR and DR. Advantages and disadvantages (3 + 3 + 2 + 2)?

8. A. Artificial intelligence in Radiology b . PET MR (5 + 5)

9. A Pcpndt act and its applications

B . TLD badge. (5 + 5)

10. Plagiarism. What are different types? Describe. How you identify plagiarism? (10 m)

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DNB Paper I Dec 2020

1. Acute Stroke CT, MRI, management
2. Lipoma arborescence.
3. FESS with landmarks, imaging protocol.
4. Ankle MRI.
5. Breast MRI.
6. FAI.
7. A. Cushing syndrome.
B. Adrenal adenoma Vs Mets.
8. A. incidental thyroid nodule. B. TIRADS.
9. Posterior fossa tumors in children.
- 10 Epilepsy protocol and imaging findings of mesial temporal sclerosis.

DNB Paper II Dec 2020

1. Inferior rib notching. Coarctation of aorta. CT, MR, intervention.
2. Pneumonia in immunocompromised. Fungal pneumonia imaging.
3. Hemoptysis causes and Interventions.
4. Ischemic heart disease . Nuclear, MR, CT.
5. Anatomy lower limb arterial and venous. Imaging in deep venous thrombosis.
6. Diaphragm anatomy. Imaging in diaphragm injury.
7. pulmonary edema.
- 8 Neonatal respiratory distress. Causes of hyaline membrane disease.
9. Abdominal aortic syndromes and aortic dissection.
10. Mediastinal anatomy. Anterior mediastinal masses imaging.

DNB Paper III Dec 2020

1. Causes of Acute pelvic pain in young female. Imaging in ovarian torsion

2. Male infertility. Role of ultrasound in male infertility.
3. MRI of anorectal fistula
4. Endometrial carcinoma
5. Biliary atresia
6. Pancreatic divisum
7. Acute mesenteric ischemia
8. Achalasia
9. Renal artery stenosis
10. Renal trauma

DNB Paper IV Dec 2020

1. Bronchial artery embolization. Technique, indication and complications.
2. Non invasive imaging of the lymphatic system.
3. Image intensifier.
4. A. TLD BADGE. B. Rare earth screen.
5. Embolization agents in interventional radiology.
6. A. T1 B. MR artifacts.

7. Dual energy CT.

8. A. Rotating anode X-ray tube. B. Photoelectric effect.

9. Contrast media reaction and treatment.

10. MR Urography

DNB JUNE 2021 - paper 1

1) Role of various imaging modalities in evaluating HIE.

Imaging findings in HIE.

Preterm HIE vs full term HIE.

2) Renal osteodystrophy - imaging findings.

Approach to imaging in hyperparathyroidism.

3) Latest nomenclature of disc herniation.

Osteoporotic vertebral collapse vs Metastatic vertebral collapse.

4) Indications of MRI breast. Technique of MRI breast. Non-enhancing mass in MRI breast.

5) Ultrasound and MRI findings of rheumatoid arthritis.

6) Radiological anatomy of central skull base. and Imaging in CSF rhinorrhea.

7) Imaging features of recurrent shoulder dislocation.

Role MR arthrography in shoulder displacement.

8) Imaging features and demographics of craniopharyngioma

Discuss the it's differential diagnosis.

9) Suprahyoid neck spaces - boundaries and Radiological anatomy.

Pathologies of masticator space.

10) Radiological anatomy of ligaments of knee joint.

MR evaluation of cartilages of knee joint. DNB

JUNE 2021 - Paper 2

1) CT and radiographic anatomy of bronchopulmonary segments.

Hilum overlay sign and hilum convergence sign.

2) Pathologies of lung carcinoma.

TNM8 staging in lung carcinoma.

FDG PET role in lung carcinoma.

3) ITMIG classification of mediastinum.

Thymoma- imaging features and approach.

Imaging features thymoma vs hyperplasia.

4) Pelvic fractures - classification and Imaging approach.

Osseous and soft tissue injury patterns of pelvic fractures.

5) Solitary pulmonary nodule definition.

Discuss the etiologies/differential diagnosis.

Benign vs malignant SPN.

6) Dark and white blood cardiac MRI.

Viability scans in IHD.

7) MDCT reconstruction methods in airway.

Imaging in intraluminal lesions of tracheo-bronchial tree.

8) Constrictive pericarditis - CT imaging.

Radiographic Imaging of mitral valve diseases.

9) Abdominal trauma- imaging approach.

Splenic injury Imaging.

10) Peripheral arterial disease - imaging with advantages and disadvantages.

DNB JUNE 2021 - PAPER 3

1. (a) CT imaging in pancreatitis.

(b) what is groove pancreatitis?

(c) radiological difference between focal mass forming pancreatitis and pancreatic adenocarcinoma

2. (a) LIRAD, its main features and categories

(b) use of LIRAD in liver lesion management

3. (a) imaging features of intestinal TB on barium meal follow through and CT

(b) difference between intestinal TB and crohns disease

4. (a) Radiological anatomy of retroperitoneum

(b) cross sectional imaging in retroperitoneal liposarcoma

5. (a) Bosniak classification of renal cyst 2019

(b) syndromic association of renal cyst in adult

6. different variety of gestational trophoblastic disease and role of imaging

7. (a) imaging evaluation of female presented with infertility

(b) mri imaging feature of uterine adenomyosis

8. (a) MRI evaluation method in ovarian mass

(b) differentiating features of benign and malignant ovarian mass on USG and MRI

9. (a) Imaging in small bowel lymphoma

(b) Discuss differentials

10. MRI hepatobiliary contrast agent and its use in differentiating liver lesion DNB
JUNE 2021 - paper 4

1. (a) brief principle of DWI MRI

(b) 4 brain pathology showing restriction

(c) non-neurological application

2. motion artifacts in MRI. Methods to prevent them.

3. (a) What is Nephrogenic systemic fibrosis

(b) Risk factors for NSF

(c) method of prevention

4. principle of ultrasound elastography and its application in diffuse liver disease

5. (a) principle and types of radiographic grid.

(b) what is grid ratio

(c) advantages and disadvantages

6. (a) What are the stochastic and nonstochastic effect of radiation ?

(b) AERB dose limits for general public and occupational worker

7. First and second generation of ultrasound contrast agent and its application

8. (a) cone beam CT

(b) Zoning in MRI

9. (a) Principle of RFA

(b) application in benign and malignant lesions

10. technique, indications, contraindications and complications of HSG