

Rajiv Gandhi University of Health Sciences, Karnataka

Fellowship Examination - 13-Sep-2022

[Time: 3 Hours]**[Max. Marks: 100]****NON-INVASIVE CARDIOVASCULAR IMAGING - PAPER – I****QP Code: 4324**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions**10 X 10 = 100 Marks**

1. Describe the systematic approach to diagnosing various congenital heart diseases on a chest X-ray.
2. Imaging strategies for assessment of cardiovascular abnormalities in aortoarteritis.
3. Explain and enumerate the categories in CADRADS and their implications in management of CAD.
4. 55 year old patient with a ICD implanted 20 years ago needs a cardiac MRI. Discuss the steps you will take to safely and adequately image this patient.
5. Imaging of a 45-year-old male hypertensive patient presenting to emergency with acute chest pain.
6. Imaging in assessment of non-compaction cardiomyopathy. Discuss etiology, diagnosis and prognostication using imaging techniques.
7. Describe the various pharmacological and non-pharmacological methods used in stress CMR. Describe the advantages and disadvantages of each and briefly describe the MRI acquisition protocol.
8. 61 year old male of CKD with history of AVF in forearm now presents with swelling in arm. Describe imaging strategy.
9. Role of cardiac MRI in COVID 19.
10. A 32 year old female patient present with LVH on ECHO. Discuss the various prephenotypic markers that can be evaluation on CMR to identify cases of HCM.

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