

Write short Notes on:

1. Recording, understanding of pressure volume loops in CHF
2. Nitric oxide and pulmonary hypertension.
3. Genetics of sudden cardiac death.
4. Embryology & anatomy of AV septal defects.
5. Pharmacology of clopidogrel.
6. Metabolic reserve of the heart.
7. Mechanism of breathlessness & fatigue in chronic congestive failure.
8. LV non compaction.
9. Molecular basis of vulnerable plaque.
10. Sodium intake & hypertension.

Write short Notes on:

1. Current role of myocardial contrast echocardiography.
2. ECG localization of acute MI.
3. Strain Rate Imaging.
4. Use & misuse of cardiac troponins.
5. Assessment of borderline coronary stenosis
6. Current role of MRI in functional assessment of cardiovascular diseases.
7. Determinants, assessment and management of pulmonary regurgitation in post operative patients of tetralogy of fallot.
8. Role of DFT in ICD implantation.
9. Low flow, low gradient aortic stenosis – evaluation & treatment.
10. Role of PET in cardiology.

Write short notes on:

1. Anatomy of AV junction
2. Anaerobic threshold
3. Apoptosis and cardiovascular disorders
4. Platelet function testing
5. Nitric oxide and oxidative stress in cardiovascular disorders
6. Mendelian inheritance in cardiovascular disorders
7. Coronary collateral circulation
8. Flick principle
9. Laplace law
10. Sensitivity specificity and predictive accuracy

Write short notes on:

1. RV myocardial infarction – Diagnosis and management
2. Low flow low gradient in aortic stenosis: Definition and management principles
3. Pregnancy in a patient with bileaflet valve in aortic position – treatment principles
4. Criteria for the diagnosis of infective endocarditis
5. Role of color M mode in diastolic heart failure
6. AV block in alcohol ablation for hypertrophy cardiomyopathy
7. Management of acute pericarditis
8. Methods to assess responders of CRT
9. Nesiritide
10. Treatment of proximal dissection of aorta

Write short notes on:

1. Design an investigative protocol to test the efficacy of stem cell therapy in CHF
2. Non-invasive investigation for CCP (chronic constrictive pericarditis)
3. Fetal echocardiography
4. Strength of non invasive techniques for viability
5. Investigations for active plaque in acute coronary syndrome
6. Investigation for a case presenting with syncope
7. Lipoprotein
8. Incremental value of SPECT IMAGING in Suspected CAD
9. Risk stratification of long QT Syndrome
10. Role of intra vascular ultrasound in cath lab

Write short notes on:

1. Fibrous skeleton of the heart.
2. Myocardial contractility.
3. Ion Channels
4. Mechanisms of pulmonary oedema.
5. Haemodynamics of univentricular heart.
6. Haemodynamics of constrictive versus restrictive physiology.
7. Current prevalence of rheumatic heart disease.
8. Chromosomal aberration in cardiovascular diseases.
9. Estimation of coronary blood flow.
10. Myocardial regeneration.

Write short notes on:

1. Brain Natriuretic Peptide (BNP) in heart failure.
2. Electrical device therapy in heart failure.
3. Non-ST elevated ACS: the rationale for conservative and invasive strategies.
4. ST elevated AMI: Facilitated reperfusion.
5. Diuretics in hypertension – criticize the JNC7.
6. Lower the better – what should be the lower level of LDL-C in secondary prevention.
7. Sudden cardiac death – discuss the primary electrical abnormalities.
8. Drug eluting stents and subacute stent thrombosis.
9. IHD in young – a tropical disease.
10. Newer Anti-anginal drugs.

Write short notes on:

1. Echocardiographic evaluation of diastolic dysfunction.
2. Non invasive assessment of myocardial viability.
3. Clinical applications of cardiac MRI
4. Assessment of valvular stenosis in the cardiac catheterization laboratory.
5. Non invasive strategies to detect atherosclerotic plaque
6. ECG in the emergency room.
7. Risk assessment in unstable angina /NSTEMI by cardiac markers.
8. Laboratory evaluation of syncope.
9. Intra operative trans-esophageal echocardiography.
10. Novel risk factors for atherosclerosis.

Write short Notes on:

1. Aspirin use in chronic heart failure.
2. Stem cell therapeutics in cardiovascular diseases.
3. Atrial fibrillation: Pill in the pocket.
4. Genesis, hemodynamics & understanding of mid diastolic & presystolic murmurs.
5. Direct thrombin inhibitors.
6. Failing Fontan: Mechanism & management.
7. Statins induced myopathy.
8. Cryptogenic stroke & patent foramen ovale.
9. Anemia in CHF: Etiology, mechanism & management.
10. Coronary Bifurcation Lesions.