Cardiac Evaluation BVOCCT-501

**Unit I**

**Clinical disorders of heart**

a) Clinical presentation, evaluation and management of acute coronary syndromes b) Clinical presentation, evaluation and management of stable ischemic heart disease c) Hypertension, diagnosis, complications and management d) Cardiac arrhythmia, presentation, diagnosis and management e) Heart failure, classification, diagnosis and management

**Unit II**

**Drugs and Nutrition in Cardiac Care**

1. Drugs acting on cardiac system and emergency cardiovascular drugs

a. Antiplatelets drugs

b. Antiischaemic drugs

c. Thrombolytic drugs

d. Antiarrhythmic drugs

2.Nutrition assessment and management

**Unit III**

**Patient monitoring in cardiac care**

3. Monitoring of a patient with cardiac disease

a) Cardiac Rhythm and rate.

b) Trans-cutaneous oxygen monitors and Pulse oximeters.

c) Invasive hemodynamic monitoring

d) Multi parameter monitoring

e) ACT monitoring

f) Monitoring response to therapy and progression of disease

**Unit IV**

**Cardiovascular investigations: Noninvasive**

a) ECG - Review of ECG patterns in ischaemic heart diseases, hypertensive heart disease.

b) Echocardiography - A review of Evaluation of valvular heart diseases, ischaemic heart diseases, Cardiomyopathies and pericardial diseases

c) Pulmonary hypertension, infective endocarditis, intracardiac masses.

d) Stress test- treadmill test review, pharmacological stress testing.

e) 24 hours Holter monitoring

Unit V Cardiovascular investigations: Invasive a) Coronary angiography b) Diagnosis of mitral stenosis, regurgitation and mixed c) Diagnosis of shunts A review d) Diagnosis of peripheral and aortic diseases e) Complications of cardiac catheterization f) Contrast induced nephropathy prevention and management

Practicals/ Students Presentations - Round Table 1. Diagnostic patterns of ECG changes in a patient with chest pain. 2. Diagnostic patterns of ECG changes during stress test 3. Evaluation of rheumatic mitral stenosis by echocardiography 4. Evaluation of Pericardial effusion by echocardiography

Recommended Books Recent Editions. 1 A Text book of Electrocardiography - Goldberger. 2 Nanda's A Text book of Echocardiography. 3 A Text of Cardiac Catheterization & Interventions. Dr. W. Grossman's D. Baim. 4 A Text book of Cardiovascular Medicine. Dr. Bruanwald's. 5 A Text book of Medicine. Davidsons.