Basics Cardiac Evaluation BVOCCT-403

**Unit I**

**Heart diseases and related disorders**

a) Ischaemic heart disease

b) Rheumatic heart disease

c) Congenital heart disease

d) Arrhythmias

e) Peripheral vascular disease

f) Pericardial disease

g) Shock state

h) Cardiomyopathy

i) Hypertension, diabetes, dyslipidaemias

j) Infective endocarditis

k) Heart failure

l) Pulmonary hypertension and embolism

**Unit II**

**Cardiovascular investigations: Noninvasive**

a) ECG - cardiac diagnosis by ECG: Chambers enlargement, arrhythmias, myocardial ischaemia and infarction.

b) Echocardiography - cardiac diagnosis: valvular heart diseases, myocardial diseases, ischaemic heart diseases, Cardiomyopathies

c) Pulmonary hypertension, infective endocarditis, intracardiac masses.

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

e) 24 hours Holter monitoring f) Ambulatory BP monitoring

f) Tilt table test

g) Ankle-Brachial Index

**Unit III**

**Cardiovascular investigations: Invasive**

a) Diagnosis of coronary artery disease

b) Diagnosis of valvular heart diseases in the cath-lab - stenosis, regurgitation and mixed

c) Diagnosis of shunts

d) Evaluation of pulmonary hypertension

e) Diagnosis of pericardial constriction

f) Diagnosis of peripheral and aortic diseases

g) Complications of cardiac catheterization

h) Complications and management of Contrast

**Unit IV**

**Cardiovascular pharmacological therapies**

a) Antiplatelets

b) Anticoagulants

c) Antiarrhythmic

d) Antihypertensive

e) Intravenous fluids

f) Atropin

g) Inotropics

h) 2B 3A receptors blocking agents

I) Diuretics

j) Nitrates

k) miscellaneous

**Unit V**

**Cardiovascular interventional therapies**

a) Coronary angioplasty

b) Peripheral angioplasty

c) Mitral valvoplasty

d) Pulmonary and aortic valvuplasty

e) Device closures

f) Pacemakers

g) Pericardiocentesis

h) Myocardial biopsy

i) Retrieval of foreign bodies

j) Clot aspiration

**Practicals:**

Non invasive Technology;

a) ECG recording basic

b) ECHO evaluation basic

c) Preparation for treadmill test

d) Preparation for Holter monitoring

e) Preparation for ABPM

Invasive Technology;

a) Cardiac Cath right Heart

b) Cardiac Cath Left Heart

c) Cardiovascular Angiography

d) Cardiac Pacing

e) Relevant instrumentation in Cath Lab

f) Cardiac Emergencies in Cath Lab