

SYLLABUS
POST - DOCTORAL FELLOWSHIP PROGRAMME
IN
PREVENTIVE CARDIOLOGY

Duration of fellowship : one year.

Qualification : MD/DNB (Medicine) DM Cardiology / DNB Cardiology

This one - year fellowship in Preventive Cardiology is; a multidisciplinary training program in various aspects of cardiology. The primary goal of this fellowship is to provide you with the knowledge and skills necessary to identify, evaluate patients with heart disease and providing them basic care. Major emphasis of the training program will be on helping patients prevent cardiovascular disease. This training program seeks to alleviate a perceived shortage of doctors with skills to prevent and treat our nation's leading cause of death, "cardiovascular disease".

CURRICULUM

Our program provides comprehensive teaching and self - guided learning opportunities in cardiovascular diseases with emphasis on prevention.

The following is a sample of how time is spent during the one-year programme

Out patient clinics / In patient - 31/2 months

History taking and cardiac assessment
Cardiovascular Examination
Investigation and Interpretation
Risk assessment and atherosclerotic risk factor management.
Emphasizing nutritional & Life style modifications in prevention of cardiovascular disease

NON INVASIVE PROCEDURES

Interpretation of Electrocardiogram
Perform and Interpret Exercise Stress test - **2 months**
Perform and Interpret Holter
Perform and Interpret Echocardiogram - **3 months**

Intensive Coronary care Unit - 3 months

Monitoring and managing patients with

- Acute Coronary syndrome - STMI / NSTMI / Unstable Angina
- Acute pulmonary edema
- Cardiogenic Shock - hemodynamic monitoring
- Cardiopulmonary resuscitation

- Temporary Pacemaker
- Pericardiocentesis

Health camps for identifying and bringing awareness among public about preventive measures in heart disease. - **15 days**

Didactic Training

Clinical conferences, seminars, small discussion groups, journal clubs and one - on - one instruction are integral parts of this fellowship.

Candidate is expected to maintain a Log book of the details of the training and Interesting case scenarios encountered during the training program.

SYLLABUS

FUNDAMENTALS OF CARDIOVASCULAR DISEASE

Global burden of cardiovascular disease
Cardiovascular disease in India
Functional Anatomy of heart
Physiology of cardiovascular system
Cardiac pathology

EVALUATION OF PATIENT

History and physical examination
Electrocardiography
Exercise stress test
Echocardiography
Chest X Ray in Cardiovascular disease
Nuclear Cardiology / Cardiac CT & MRI

ISCHEMIC HEART DISEASE

Evaluation of Patient with chest pain in Emergency Department
ST elevation Myocardial Infarction
Unstable Angina and Non - ST elevation Myocardial Infarction
Stable ischemic heart disease
Percutaneous Coronary Intervention / Coronary artery Bypass surgery

CONGENITAL HEART DISEASE

Atrial septal defect
Ventricular septal defect
Patent ductus Arteriosus

Tetra logy of Fallot
Complex congenital heart disease

VALVULAR HEART DISEASE

Aortic valve disease
Mitral valve disease
Tricuspid, Pulmonary & Multivalvar disease
Prosthetic heart valves
Infective Endocarditis
Rheumatic fever
Primary tumors of heart

CARDIOMYOPATHY AND SPECIFIC HEART MUSCLE DISEASE

Dilated cardiomyopathy
Restrictive & Infiltrative cardiomyopathy
Hypertrophic cardiomyopathy
Myocarditis and specific cardiomyopathies

PERICARDIAL DISEASE

Pericarditis
Pericardial effusion
Constrictive pericarditis

CARDIOPULMONARY DISEASE

Pulmonary hypertension
Pulmonary embolism
Cor pulmonale

CARDIOVASCULAR DISEASE IN WOMEN

PREGNANCY AND HEART DISEASE

DISEASE OF GREAT VESSEL AND PERIPHERAL VESSELS

Disease of Aorta
Diagnosis and management of disease of peripheral arteries and veins.

ANAESTHESIA AND NON CARDIAC SURGERY IN PATIENTS WITH HEART DISEASE

ENDOCRINE DISORDERS AND CARDIOVASCULAR DISEASE

EVALUATION

To ensure you gain proficiency and develop the corresponding technical skills, your performance is monitored throughout this program.

Marks awarded for **Periodic assessment / Log book - 20 marks**

Total - 200

Finally at the end of training program examination held for 180 marks

1) Theory examination : Duration 3 hours - Total marks - 100
(Short notes / MCQ)

11) Practical Examination - Total marks 80

Case I Duration 30 minutes - marks 10

Case II Duration 30 minutes - marks 10

Clinical Spotters - Duration 30 minutes - marks 20

(ECG / Cxray / TMT / ECHO)

Viva voce - Duration 30 minutes - Marks 20
- Research / Clinical Study / Publications - 20

Total Marks - 200

Recommended Reading :-

1. HURST'S THE HEART MANUAL OF CARDIOLOGY

12th EDITION., TATA MCGRAW - HILL EDITIONS

AUTHORS - ROBERT AO" ROURKE, MD, MACC, MACP, FAHA

- RICHARD A. WALSH, MD, FACC, FAHA

- VALENTIN FUSTER, MD., PH.D., FACC, FAHA

2. HOW TO BEAT THE HEART DISEASE EPIDEMIC AMONG SOUTH ASIANS

A PREVENTIVE & MANAGEMENT GUIDE FOR ASIAN INDIAN & THEIR DOCTORS

By

ENAS A ENAS, M.D., FACC

WITH

SUDESH KANNAN, Ph.D.,

ADVANCED HEART LIPID CLINIC

Downers Groie, IL 2008 editions
