

College of Physicians and Surgeons of Mumbai

Syllabus for CPS-PG-Course

DCARD-DIPLOMA IN CARDIOLOGY

College of Physicians and Surgeons of Mumbai

CPS House, Dr. E. Borges Marg, Parel, Mumbai – 400012.

DCARD-DIPLOMA IN CARDIOLOGY

COURSE DESCRIPTION

Eligibility Criteria for Candidates:

i. A candidate should possess MBBS degree/ equivalent degree as per provisions of Indian Medical Council Act.

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ii. Candidates having a recognized 3 years degree Qualification (MD/MS/DNB) in any General Medicine or 2 years Diploma Qualification in General Medicine specialty

<u>Duration of the Course</u>: 2 years

BASIC SUBJECTS

Teaching and attaining proficiency in applied Anatomy (including developmental anatomy), Physiology and Pathology related to the cardiovascular system.

CLINICAL CARDIOLOGY

Etiopathology, hemodynamics, clinical evaluation, noninvasive and invasive evaluation and management strategies for the following disorders:

Coronary artery disease

Rheumatic heart disease

Congenital heart disease and other paediatric cardiac disorders

Pericardial diseases

Cardiacarrhythmias

Heart failure

Peripheral vascular disorders

Pulmonary thromboembolism and pulmonary hypertension

Systemic hypertension

Systemic diseases involving heart

Heart muscle diseases

Traumatic heart disease

Tumors of heart

Genetics, molecular biology and immunology related to cardiology

Geriatric heart disease

General anaesthesia and non cardiac surgery in patients with heart disease

Pregnancy and heart disease

Epidemiology and preventive cardiology

Non-invasive Technique

To perform and interpret various non invasive techniques including:

Electrocardiography

Radiography - routine and specialized areas like CT and MRI

Stresstesting-treadmilltest, stress related and other nuclear techniques

Holter monitoring for arrhythmias and ischemic disorders

Echocardiography – M-mode, Two dimensional, Doppler, color flow imaging, transesophageal echocardiography and echo directed hemodynamic studies.

Invasive Cardiology

Experience in cardiac catheterization to calculate and interpret various hemodynamic parameters
Right and left heart cath and coronary angiography procedures in adults and children
To perform temporary pacemaker insertion.

To assist in various interventions including valvuloplasty, coronary and congenital interventions.

Electrophysiology: To interpret electrophysiological data and assist in electrophysiology procedures, permanent pacemaker implantation.

Biomedical Aspects

To understanding the functional principles of various bio-medical equipment's used for the invasive and non-invasive cardiology.

Research Projects

It is recommended that the number of projects be reduced to two, however at least one of these projects must be prospective in nature. In addition, one of the projects must be submitted for publication in an indexed journal before submission. Special credit should be given for additional published case reports, published articles.

The candidates hould write two reviews as the topic spresented by him on seminars.

Academic and Clinical Work Requirements

Journal club readings – minimum of 4 reviews and 6 journal readings Minimum No. of Procedures Number of Echo's done — 200 Number of TMT procedures — 100

No. of temporary pacemakers done - 30 Number of Holteranalysed - 50

Number of permanent pacemakers assisted or done - 5 Number of cardiac cath procedures including Interventions assisted or done - 100

(The Head of the department should certify this)

Duration of the study program - :

Ward + CCU	12 months		
Cath Lab			
Echo	06 months		
TMT/Holter			
Electrophysiology/pacemaker			
Cardiac Surgery			
Nuclear Cardiology	06 months		
Pediatric Cardiology			

Duration of the training programme: 2 years i.e. – 24 months.

DCARD : DIPLOMA IN CARDIOLOGY EXAMINATION PATTERN

Theory Examination:

PAPE	ER I	P/	PAPER II		PAPER III	
ANATOMY& PHYS	SIOLOGY	THERAPEUTICS	THERAPEUTICS		APPLIED SCIENCES& RECENT ADVANCES	
Secti	on I	Se	Section I		Section I	
Q.1. 10	Marks	Q.1.	10 Marks	Q.1.	10 Marks	
Q.2. 10	Marks	Q.2.	10 Marks	Q.2.	10 Marks	
Q.3. 10	Marks	Q.3.	10 Marks	Q.3.	10 Marks	
Q.4. 10	Marks	Q.4.	10 Marks	Q.4.	10 Marks	
Q.5. 10	Marks	Q.5.	10 Marks	Q.5.	10 Marks	
Total 50) Marks	Total	50 Marks	Total	50 Marks	
Section	on II	Se	ction II	Se	Section II	
Q.6. 10	Marks	Q.6.	10 Marks	Q.6.	10 Marks	
Q.7. 10	Marks	Q.7.	10 Marks	Q.7.	10 Marks	
Q.8. 10	Marks	Q.8.	10 Marks	Q.8.	10 Marks	
Q.9. 10	Marks	Q.9.	10 Marks	Q.9.	10 Marks	
Q.10. 10	0 Marks	Q.10.	10 Marks	Q.10.	10 Marks	
Total 50) Marks	Total	50 Marks	Total	50 Marks	

Practical Exam	Marks	
Paper - IV	Clinical Practical	100
Paper - V	Oral & Viva	100
Paper - VI	Case	100
Total Marks	(Aggregate marks for passing is 50% out of total.)	300