In the Name of God

Islamic Republic of Iran
Ministry of Health and Medical Education
Deputy for Education

Cardiology
Degree: Specialty & Subspecialty

Program Description
Cardiovascular Specialty and Subspecialty Training Programs are mainly about Prevention, Treatment, Post interventional or post treatment Care.
Regarding High Probability of Mortality and Morbidity due to cardiac diseases, in recent 3 decades, there has been a special Attention to these courses in the world and likewise in our Country, resulting in magnificent changes in these courses including changes in management as well as technology and Facilities.
The first Curriculum in this subject had been written in 2006 with 3-5 years revision plan.
This current curriculum is the revised version, produced in 2012.

Definition and Duration of the Course:
Cardiology is a clinical training Program concerned about Prevention, Diagnosis, Management, Care and Rehabilitation of Adults with Cardiovascular diseases and will provide Educational and specialty-subspeciality Health Services and Researches for the Community.
Duration: for Specialty is 4 years and for Subspecialty is 3 years.

Aim:
Training competent, liable practitioners in service provision, education and research.

Admission Requirements
Specialty: General Practitioners will be selected based on Entrance Exam Rules and Regulation
Subspecialty: The students will be selected from Internists based on Subspecialty Entrance Exam Rules and Regulation

Expected Competencies at the End of the Program
General Competencies*

Specific Competencies and Skills
At the end of the program learners will be competent in performing following procedures:
ECG
ETT
Holter ECG
Holter BP
Programming & Analysis of Pacemaker and Defibrilator
Electrical Cardioversion & Defibrilation
Tilt test
Cardiopulmonary Resuscitation
Echo-doppler (TTE)
Transe esophageal Echo cardiography
Pericardiocentesis
Temporary Pacemaker
Electrophysiological Study
Interventional Studies
Right and Left Catheterization
Coronary vessels Angiography
Transplanted Vessels angiography of Bypass

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

<table>
<thead>
<tr>
<th>Methods</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Periodic</td>
</tr>
<tr>
<td>MCQ</td>
<td>Annual</td>
</tr>
<tr>
<td>OSCE</td>
<td>At the end of training Program</td>
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<tr>
<td>Article Evaluation</td>
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<tr>
<td>DOPS</td>
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<tr>
<td>Portfolio</td>
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<tr>
<td>LOG book</td>
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<td>MINI CEX</td>
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</tbody>
</table>

Ethical Considerations*

*Note: The related document(s) can be found at http://hcmeb.behdasht.gov.ir/.
The overall structure of the course:

<table>
<thead>
<tr>
<th>Educational Field</th>
<th>Content</th>
<th>Duration (Month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinic</td>
<td>Visit, documentation, hospitalization, management, follow ups, Consultation</td>
<td>Based on Schedule</td>
</tr>
<tr>
<td>Inpatient Ward</td>
<td>Inpatient Visits, Care and Management, procedural Intervention, Discharge, Followup…</td>
<td>Based on Schedule</td>
</tr>
<tr>
<td>Angiography Unit</td>
<td>Participation in procedure (observer, aid, independent operator.)</td>
<td>Based on Schedule</td>
</tr>
<tr>
<td>Echocardiography ward</td>
<td>Related issues education</td>
<td>Based on Schedule</td>
</tr>
<tr>
<td>Exercise test &amp; EPS</td>
<td>Exercise tests, electrophysiological studies</td>
<td>Based on Schedule</td>
</tr>
<tr>
<td>Rotational Wards</td>
<td>1-Cardiac surgery</td>
<td>1 month</td>
</tr>
<tr>
<td></td>
<td>2-Pediatric Cardiac surgery</td>
<td>1 month</td>
</tr>
<tr>
<td></td>
<td>3-Cardiac Imaging</td>
<td>2 weeks</td>
</tr>
<tr>
<td></td>
<td>4-Cardiac Rehabilitation Ward</td>
<td>2 weeks</td>
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</tbody>
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