In the Name of God

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

Cardiovascular Surgery

Degree: Subspecialty

Program Description

Establishing of Cardiovascular surgery in 40-50 years ago in Iran and training Cardiovascular Surgery Bases independently in Iran Heart Surgery Centers and developments of these wards in 20 -30 years ago, has made revision of related training courses a necessity. In 2009 there were 10 Cardiovascular Surgery Centers in Iran.

According to Scientific and Technologic development in Medicine, Newer educational and technologic Approaches to this training program seem Obligatory and also revising of the curriculum should be done.

Course Definition and Duration:

Eligible General Surgeon can Apply for this training course and after 3 years of Training they will be able to Diagnose and do surgical management of Cardiovascular Related diseases like valvular diseases, Aortic diseases, Coronary Diseases, Congenital Heart Diseases and other related problems. Course Duration is 3 years.

Aim:

Training of Competent, Knowledgeable, liable subspecialists for service provision and Continuous Promotion in Diagnostic, Therapeutic, Preventive, Education and Research Fields of Cardiovascular Surgery

Expected Competencies at the End of the Program



Specific Competencies and Skills

At the end of the program learners will be competent in performing following procedures:

IMA Harvest

Sternotomy

Sternal closure

Tracheostomy

Tracheal tube (nasal /oral)

Central venous catheter insertion Cannulation for CPB

CABG

Valve replacement

Valve repair

IABP insertion

VSD closure

ASD closure

PDA closure

Femoral cannulation for CPB

Axilary cannulation

Coarctation repair

Systemic to PA shunt

Pleural Tap

Gleen Shunt

Pericardial drainage

Aortic root replacement

LV Aneurysm Repair

Aortic root enlargement

Redo sternotomy

Pericardiectomy

Redo CABG

Aortic root enlargement

Redo sternotomy

Pericardiectomy

Redo CABG

Aortic dissection repair

Redo valve surgery

Complex valve repair

Radial Artery harvesting

Peritoneal dialysis catheter insertion

Assist devices management

Heart transplant

TOF repair

Aortic Aneurysm

PS (valvular)

Cardiac Tumors

Pulmonary Embolectomy

Complex congenital Heart diseases

Educational Strategies, Methods and Techniques*



Student Assessment (Methods and Types)

Methods	Periods Of Assessment
Log Book	Continuous
Dops	Each 2-3 months
Portofolio	Final Exam
Oral Exams	
OSCE	
MCQ	

Ethical Considerations*



*Note: The related document(s) can be found at http://hcmep.behdasht.gov.ir/.

The overall structure of the course:

Ward/Unit/Educational Field	Contents	Duration
Cardiovascular (adult –Pediatrics) wards, Operating Room, Out patients Clinics	Out -patient, In-patient Visits, Responding to Medical Consults, performing Diagnostic/Therapeutic Intervention, Preoperative Patients Preparation, operation, participation in Educational/Research program, post operative patients care, Follow ups	30 months
Cardiac ICU	Introduction to ICU equipment and usage	1 month
Perfusion Pump Unit	Introduction to :CPB Basics, Equipment	15 days
Cardiac Anesthesia Ward	Introduction to Anesthesiology Basics, Intubation and CVP	15 days
Echocardiography Ward	Introduction to Echo waves and Interpretation	During the Course 2 weeks Specifically
Combined Cardiovascular and Radiology wards	Introduction to CT scan, MRI and interpretation	During the course
Angiography (Cath-Lab)	Introduction to Cardiovascular Angiography Basics	During the Course 2 weeks Specifically
CCU	Introduction to CCU Care and Cardiac Emergencies	During the Course 2 weeks Specifically
Optional	Introduction to other Fields Activities based on ward Schedules	2.5 Months
Research Fields	Purposeful ,Under supervision Researches	During the Course

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