In the Name of God

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

Clinical Cardiac Electrophysiology

Degree: Fellowship

Introduction

Diagnosis and treatment of heart rhythm disorders, including bradycardia, abnormal heartbeat, and high risk beats have increased drastically. Hence, some cardiologists tend to work in this field, which mandates offering a fellowship course to understand and treat relevant diseases. Many developed countries have opted training specialists in this fellowship. Thanks to advanced technology in this field, most diseases are diagnosed and treated in Islamic Republic of Iran; however, it is essential to develop the fellowship course of cardiac electrophysiology to set clear and systematic objectives. The development of this curriculum is hoped to help promotion of this course through identifying its different aspects.

Definition and Duration of the Training Course:

Derived from cardiology specialty, electrophysiology fellowship trains graduates engaged in diagnosis, treatment and caring of patients with heart rhythm disorders and installation of pacemakers, ICD (implantable defibrillators) and Cardiac Resynchronization Therapy (CRT) for providing the community with their specialized knowledge and skills in the fields of education, research and health services.

Course duration

The course lasts 18 months.

Aims:

1-To train knowledgeable, competent and committed specialists in the field of heart rhythm disorders.

2-To reach the international educational standards and be among the approved centers of "Heart Rhythm Society" (HER) in terms of accepting fellows through continuous optimization and offering the most favorable educational programs.

3-To be among the reputable international centers and top the region in this field.

Admission Requirements:

Following are authorized to enter this course:

- 1. Cardiologists
- 2. Adult cardiology specialists from internal medicine

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 the following skills:

Procedural Skills (Diagnostic-Therapeutic Measures)

EPS(Electrophysiology Study) Ablation

Septostomy

PPM (Permanent Pacemaker)

ICD(Implantable Cardioverter-Defibrillator)

CRT(Cardiac Resynchronization Therapy)

ILR (Implantable Loop Recorder)

HUTT(Head-up tilt table test)

PPM Analysis

ICD Analysis

CRT Analysis

Complex Ablation

(AF, Ischemic VT, Epicardial)

LAA closure((Left Atrial Appendage Closure)

ICE (Intracardiac Echocardiography)

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

Assistants' assessment will take place every 8 months, two exams in total, in the form of DOPS or OSCE.

Ethical Considerations*

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

The overall structure of the course:

Department, , unit, or setting	Syllabus- Measures	Duration (month)
Clinic	Outpatient visits, triage, filing medical records, and hospitalizing patients, following up the expert consultations given to the patients, performing outpatient procedures, educating the lower-level classes, responding to expert consultations requested, participating in Holter interpretation, analysis of pacemaker and ICD and other measures in accordance with organized programs of the ward	Two days a week during the course 17 months
Inpatients	Visiting hospitalized patients, patient care, stabilizing the patients hospitalized in the ward, performing diagnostic-therapeutic procedures at the bedside, educating the lowerlevel classes, and other measures in accordance with organized programs of the ward	Every day 17 months

Operating room	Participating in procedures by	At least three days a week during the
	observing, assisting or performing	course and as per case
	independently according to the	
	program organized by the ward.	
Rotating department (1)	Familiarity with principles of	One month during the course
Echocardiography	echocardiography in patients with	
	heart failure and candidates for	
	cardiac resynchronization therapy,	
	and any required examinations for	
	clinical cardiac electrophysiology	
	according to discretion of director of	
	the echocardiography department	
Rotating department (2)	Familiarity with the principles and	One month during the course
Researches	provisions of scientific and regional	
	studies, and researches in the field of	
	electrophysiology and related	
	sciences in coordination with the	
	director of the research department	
Rotating department (3)	Familiarity with the basic principles	One month during the course
Cardiac surgery	of cardiac surgery in patients with	
	heart failure and cardiac arrhythmias	
	such as the Maze procedure and	
	epicardial lead placement and	
	participating in the operations with	
	permission and coordination with	
	the related surgeon	
Optional ward		

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