



In the Name of God

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

Emergency Medicine

Degree: Specialty

Program Description (Introduction):

Medical Emergencies are of strategic importance in the health service systems. Although the complexity of medicine and attention of medical experts toward specialized issues have led to the development of specialty and subspecialty fields, these issues have also improved the quality of emergency services. The idea to establish emergency medicine came from such problems.

Parallel to maintaining community based approach and considering the real needs of health system, the program has paid special attention to training of the graduates and has been developed on the basis of educational requirements. Emergency management system, unexpected event management, and pre-hospital emergency systems have been highlighted in this program.

Definition & Duration of the course:

Emergency Medicine is clinical specialty dealing with assessment, resuscitation, stabilization, diagnosis and care of emergency patients. This field contains basic sciences, clinical knowledge and necessary skills to diagnose, make decision, and treat patients, in addition to manage department of emergency and unexpected events. Moreover, the graduate would be an effective member of medical team who cooperate with other medical specialists and work in pre-hospital emergency system.

The program duration: 36 months

Admission Requirements

- B.D.S./D.M.D./D.D.S or equivalent certificates for the applicants of Specialty
- Certificate of Internship or Certificate of Practice

Language Requirements:

- Language requirements: Evidence of English Proficiency on the TOEFL or IELTS tests. The minimum score for TOEFL PBT, TOEFL iBT and IELTS is 533, 72 and 5.5 respectively.
 - Applicants from Persian (Farsi) Speaking countries (They shall both speak and write in Persian) who have applied for graduate Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English language certificate which meets SUMS' minimal language proficiency requirements, within one year from commencing their studies at SUMS.
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- **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:

- Basic and developed techniques of airway control
- Mechanical ventilation and administration of patient connected to the ventilator
- Closed chest massage (and other maneuvers used in advanced CPR)
- A variety of central and peripheral vascular procedures and other vascular access used in emergency
- Needle thoracentesis and Pericardiocentesis
- Chest tube placement
- Conscious sedation for children and adolescents
- Different nerve and regional block and other forms of analgesia methods used in emergency
- DPL (close or open)
- Reduction of abdominal hernia
- External thrombosed hemorrhoids incisions
- Balloon tamponade in varicose bleeding of digestive system
- Anoscopy and sigmoidoscopy in treatment planning of emergencies
- Catheterization and bladder irrigation
- Administration of emergency normal vaginal delivery and episiotomy
- Phthalmology and ENT emergency procedures
- Immobilization of fractures and dislocations with Ethel, casting, and other techniques of immobilization

Educational Strategies, Methods and Techniques*

student Assessment (Methods and Types)

Assessment Method

Written Tests
OSCE Tests
PMP Tests
DOPS Tests
Chart stimulated recall method
Logbook evaluation
Formative evaluation by members of scientific board (global rating)

Assessment Interval

Formative assessment
This evaluation is formally done continuously and permanently, at least every three months)
Final assessment
Promotion test (annual)
Certification and licensure tests at the end of the three- year period

Ethical Considerations*

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

The overall structure of the course:

| Time Span (month) | Department | Years of assistant |
|-------------------|----------------------------|--------------------|
| 1 | Internal | First |
| 1 | General surgery | |
| 1 | Cardiac | |
| 2 | Anesthesia | |
| 1 | Paediatric | |
| 6 | Emergency | |
| 2 | Orthopedic | Second |
| 1 | Obstetrics and Gynecology | |
| 2 | Poisoning | |
| 1 | Radiology | |
| 5 | Emergency | |
| 15 days | Ophthalmology emergency | |
| 15 days | ENT emergency | Third |
| 1 | NICU | |
| 1 | ICU | |
| 1 | Emergency medical services | |
| 7 | Emergency | |
| 2 | Elective | |

Important Notice:

The above features the curriculum of the Emergency Medicine Program designed and approved by the Iranian Ministry of Health and Medical Education. Given the fact that Shiraz University of Medical Sciences is constantly improving and updating itself to meet the international academic standards and the state of the art, and based on the availability of facilities, devices, ward, laboratories, etc. at SUMS, all the SUMS curricula are approximately 20% subject to change.