In the Name of God

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

Orthopedics
Degree: Specialty

Program Description (Introduction)
The amazing development in orthopedics during recent couple of years is not comparable with 35 years ago when the first orthopedics curriculum was published in Islamic Republic of Iran. Although now a days, there are multiple subspecialties in this field which are beneficial for only 10-15% of orthopedics patients, the remaining 85-90% of patients should be taken care by general orthopedics specialists.
In this program the fields of general orthopedics competencies and skills necessary to manage that 85-90% of population needs will be covered.

Definition and Duration of the Program:
Orthopedics is a residency Training program to manage Trauma injuries, congenital malformation and acquired diseases involving bones, joints, soft tissues and spine.

Program Duration: 4 years

Admission Requirements
• Holding an MD degree
• Having passed the National Entrance Exam

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:
Limbs and Spine Physical Exam
Interpretation of Related MRI, CT scan, Bone Scan
Appropriate Management of Multiple Trauma Patients
Fractures Closed Reduction and Pin Fixation
Fractures or Dislocations: Closed Reduction and Operative PIN Fixation
Non Trauma Surgeries:
  • Hand and Arm
  • Foot and Leg
  • Spine
  • Tumors
  • Shoulder
  • Elbow
  • Knee
Trauma Surgeries:
  o  Hands & Arms
  o  Foot & Legs
  o  Spine
  o  Knee
  o  Shoulder
  o  Hip & Pelvis

Neuromuscular Diseases
Infectious Osteoarthritis
Amputation
Hip and neck of Femur Surgery

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

<table>
<thead>
<tr>
<th>Assessment Methods</th>
<th>Assessment Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCQ</td>
<td>2 times/year</td>
</tr>
<tr>
<td>DOPS</td>
<td>Annual</td>
</tr>
<tr>
<td>Log Book</td>
<td>Final</td>
</tr>
<tr>
<td>CBD</td>
<td></td>
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</tbody>
</table>

Ethical Considerations*

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

<table>
<thead>
<tr>
<th>Level of Residency (Year)</th>
<th>Location</th>
<th>Contents</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>Emergency ward of General Surgery</td>
<td>Training in fundamentals of General Surgery emergency specially related to Orthopedics</td>
<td>2 months</td>
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<tr>
<td></td>
<td>Orthopedics (Ward, Clinic, Operation Room)</td>
<td>Communication with patients, History taking, Physical Examination, medical management, simple casting, splinting, Ulcer Dressing, patients visit, discharge,…</td>
<td>10 months</td>
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<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>elective</td>
<td>Training courses related to orthopedics</td>
<td>1 month</td>
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<tr>
<td></td>
<td>Orthopedics (Ward, Clinic, Operation Room)</td>
<td>Communication with patients, History taking, Physical Examination, medical management, Fractures and casting, splinting, patients’ follow up; supervised simple Surgeries</td>
<td>11 months</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>Artificial Limbs Production Center</td>
<td>Training in courses related to Artificial Limbs, Prosthesis and Orthosis</td>
<td>1 month</td>
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<tr>
<td></td>
<td>Rheumatology Ward</td>
<td>Soft tissue and joints diseases</td>
<td>1 month</td>
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<tr>
<td></td>
<td>Optional</td>
<td>Training in courses related to Orthopedics</td>
<td>2 months</td>
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<tr>
<td></td>
<td>Orthopedics (Ward, Clinic, Operation Room)</td>
<td>Consultation, Rotation in different orthopedics subspecialty fields in the ward, medical management, Fractures reduction and Casting, splinting, patients’ follow up; supervised complicated Surgeries and independent Simple surgery performance</td>
<td>8 months</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Orthopedics (Ward, Clinic, Operation Room)</td>
<td>Supervision and training of junior Residents, Orthopedics Educational Program Scheduling for Medical Students and residents …</td>
<td>12 months</td>
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</tbody>
</table>
Seyed-Hassan Emami-Razavi MD
Secretariat of the Council for Graduate Medical Education

Seyed Mansour Razavi MD
Secretary of the Supreme Council for Medical Sciences Planning

Bagher Larijani MD
Deputy for Education
Ministry of Health and Medical Education