

## In the Name of God

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

## Hematopathology Degree: Fellowship

### Introduction:

Hematopathology fellowship is one of the most important and oldest programs derived from pathology. This fellowship was developed in advanced countries many years ago because of the importance and prevalence of blood and lymphatic diseases as well as their diversity and difficulties in diagnosis. Nowadays, the laboratory diagnosis of some of these diseases is still very difficult, and needs a lot of experience, therefore, additional fellowship training is quite essential for correct diagnosis. The significant progress in the classification of lymphomas and leukemias and use of new methods for diagnosis made us to develop a separate program in this discipline. Launching this discipline plays an important role in providing health services in diagnosis, treatment, and prognosis of patients.

### Definition and Duration of Training Program:

Hematopathology is a fellowship derived from pathology, and the graduates will be able to play an effective role in the diagnosis of diseases related to blood, lymphatic tissues and hematopoietic system. Duration of this fellowship is 18 months.

### AIMS:

- 1-To train specialists who are up-to-date, competent, responsible, and sensitive to the health of individuals and society in the specialized field of hematopathology for providing the society with their expertise in the areas of prevention, diagnosis, education, and research.
- 2- To reach the point to fulfill all the country's needs, and become among the top countries in the region in the diagnosis of these diseases within the next 10 years.

### 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 Procedural Skills (Diagnostic-Therapeutic Measures) skills:

1. Histochemistry on bone marrow samples
2. Immunohistochemistry
3. Flow cytometry
4. Bone marrow biopsy and aspiration (for the referred patients)
5. Tests for platelet disorders
6. Tests for coagulation disorders
7. Tests for hemoglobinopathies

#### Educational Strategies, Methods and Techniques\*

## **Student Assessment:**

### **I. Assessment Methods:**

- Oral
- DOPS
- Logbook assessment
- 360-degree feedback
- Paper-based assessment
- Portfolio assessment
- Other performance-based assessment methods

### **II. Periods of assessment:**

- Twice during the course (at the end of the 6th and 15th months)

### **Ethical Considerations\***

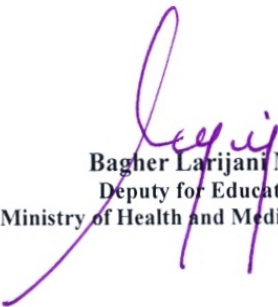
\*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.

### Overall structure of the course:

Ward, unit, or education setting	Syllabus- Measures	Duration (month)
Interpretation and sign-out room	- Analysis and interpretation of histopathology and immunohistochemistry associated with it in lymphatic cancer and non-cancer diseases, and requests for complementary tests and their interpretation	During the course
Interpretation and sign-out room	- Analysis and interpretation of bone marrow aspiration and biopsy	During the course
Flow cytometry laboratory	- Analysis and interpretation of flow cytometry in blood diseases (according to the table of procedural skills)	During the course
Coagulation laboratory	- Conducting, analyzing, and interpreting coagulation and platelet tests	1
Advanced chemistry lab	- Conducting, analyzing, and interpreting hemoglobinopathy tests	1
Immunohistochemistry laboratory	- Conducting immunohistochemistry tests	1
Molecular pathology and cytogenetic laboratory	Familiarity with the methods and principles of molecular pathology and cytogenetic tests	1
Optional ward	Participation in the clinical ward rounds of pediatric hematology-oncology	1
	Participation in the clinical ward rounds of adult hematology-oncology	1

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