

نُورُ صِفِّ بِرِنَامِج

الْمَكْتُونَاه

(program
specification

University: Al azhar university

Faculty: medicine

Department: Anatomy and embryology

Program Specification

Year: 2020 /2021

A- Basic information:

1. Program title:MD in Anatomy and embryology
2. Nature of the program: single
3. Department responsible for the program: anatomy and embryology department
4. Program code: 07-007-anat-Doc
5. **External evaluators:** Prof. Dr. Saadia Shalaby, Professor of the Anatomy ,

B- :1- objective of the program:

To provide the candidate with the detailed knowledge and skills to be qualified for teaching different topics of anatomy and biology to the medical students of different categories and to introduce them to the field of anthropology and evolution. The program also allows the candidate to master the fine skills needed in dissection of different regions of human cadavers and to acquire the scientific thinking necessary for scientific medical research.

2- Intended Learning Outcomes from the program:

A. Knowledge and Understanding: By the end of the program the candidate should be able to:

1) Master the detailed description of the structures of the different tissues, organs and systems of the human body.

2) Identify the surface anatomy of bony landmarks, muscles, viscera and correlate them to X-Ray, MR, CT and sonography.

3) Describe in depth and details the changes which occur during different stages human development and growth with the possible anomalies or aberration that may occur at each stage.

4) Describe and explain the anatomical and embryological basis of clinical problems and syndromes.

5) Master the basic scientific knowledge in comparing human anatomy with that of different animal species.

6) Recognize the principals of performing a research study and how to use appropriate statistical methods.

7) Aware of the areas of research in the field of anatomy including the experimental one especially by using stem cells from different sources. 2

B. Intellectual Skills: By the end of the program the candidate should be able to:

1) Identify the surface anatomy of the different regions and structures of the limbs.

2) Map the detailed surface anatomy of the internal organs.

3) Detect the detailed anatomical features, relationship and the neurovascular connections of the internal organs in cadavers and preserved specimens.

4) Distinguish the different anatomical structures on various radiological techniques.

5) Interpret various clinical disorders on anatomical and developmental basis.

C. Professional and Practical Skills: By the end of the program the candidate should be able to:

1) Perform fine and accurate dissection of different regions, organs, vessels and nerves of the human body.

2) Prepare ideal specimens for museum presentation.

3) Demonstrate the anatomical structures as observed by different radiological methods.

4) Design experimental work in the field of stem cells.

5) Master the different histological techniques for the light and electron microscopy.

D. General and Transferable Skills: By the end of the program the candidate should be able to:

1. Acquire the confidence of the colleague, student and auxiliary staff by communication with them.

2. Affirm the values of the ethics and respect to all individuals inside and outside the department and particularly the dissecting room.
 3. Adopt appropriate respect to cadaver.
 4. Cooperate and be responsible towards his colleagues and students as well as to his seniors.
 5. Present ideal image of his appearance, speech and behavior.
 6. Accept and encourage team work.
 7. Master computer skills required to present data bases as well as use the internet for learning communication and updating the latest knowledge.
 8. Show perfect administrative skills enabling him to fulfill the needed paper work.
 9. Acquire abilities to organize and control the juniors and subordinate paramedical staff.
 10. Acquire different scientific methods and possess critical reading abilities.
 11. Write perfect scientific articles according to the basis of scientific research.
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3- Academic standards of the program:

1. Academic reference standards: The academic standards of anatomy program is adopted and accredited by the departmental council
2. External References for Standards:

This program is unique since it incorporated different topics from different disciplines.

4- Program Admission Requirements

According to the Faculty of Medicine, Al Azhar University Bylaws for postgraduate Programs, applicants should have Master degree or equivalent accredited degree in the same specialty. Admission to the program is open during January and July. The training prior to registration may be accredited according to departmental and hospital evaluation

5- Structure and content of the program:

A- Time duration of the program: Not less than two academic years. -----

B- Program structure

courses; two academic year

- Advanced detailed descriptive anatomy
- Neuroanatomy
- embryology

Scientific activities:

Practical training program

Medical Doctorate thesis

Practical training program (3rd phase, advanced training):

According to the faculty of Medicine, al azhar University Bylaws for postgraduate programs (July 2009), the duration of the advanced practical training is 24 months. All the students should complete the advanced training program for these two years in the Anatomy Department in order to acquire the needed credit points. During this period, the candidates will attend the practical sessions and share in the demonstration of Anatomy for the students of the following categories: 1st and 2nd year medical students, 1st year dentistry student, 1st and 2nd year students of physiotherapy, 1st year pharmacy student under supervision of senior staff members. The candidates should dissect different regions of the human cadavers properly and prepare them for the practical sessions. The candidates should also prepare museum specimens and share in preparing practical exam for the students of the above mentioned categories and marking it under supervision of the professors.

Medical Doctorate Thesis:

All MD degree students should prepare a thesis. The research and ethical committee must approve the protocol of the research. The thesis should include a review part and a research part. The thesis is supervised by one or more senior staff members and may include other specialties according to the nature of the research. The thesis should be evaluated by a committee of three professors including one of the supervisors and an external professor. The thesis should be evaluated and approved before submitting for final exam.

Scientific Activities:

The candidates should actively participate in the scientific activities of the department such as:

- Seminars.
- Scientific meetings arranged by the department.
- Workshops.

- Conferences.
- Thesis discussions.

Each activity is monitored and given credit points recorded in a special section the in log book. Candidates should collect the required points before being allowed the admission for the final exam.

C- Courses of the program:

Code number	Course Title	Number of units	Number of hours /Week			Study Year
			Lectures	Practical/ Clinical	Others such as tutorials	
07-007-ant – Doc 1	Descriptive anatomy	45	40	5	-	Not less than 2 years
07-007-ant- Doc 2	embryology	43	40	3		Not less than 2 years
07-007-ant- Doc 3	Neuroanatomy	33	30	3	-	Not less than 2 years

6- Courses Content: code ---title --- content ----- present in course specifications ----

7- Methods and rules for assessment for attendance of the program:

A: Assessment Tools

Supervision and Monitoring of Training Program

supervisors carry continuous assessment during the program. A practical training program logbook will be kept for each candidate to document all his/her practical activities as well as his/her participation in different scientific activities. The head of the department should allow the candidates to undergo the final examination when they complete their training program and collect the needed credit points.

Formal Assessment

Students should be assessed at the end of the program.

- **courses:** Descriptive Anatomy and Advanced Neuroanatomy and embryology: distributed in three written exam papers, three hours each (including long and short essays as well as multiple choice questions) + practical and oral exams.

B: Assessment Schedule:

Written examination will be held in 3 days (Three hours each) include short and long essay questions, and MCQ (include problem solving). This will be followed by the practical and oral examinations in separate days.

The written exam will be held in April / November (four days)

Day one: Descriptive Anatomy (paper 1, 3 hours written exam)

Day two: Descriptive Anatomy and Advanced Neuroanatomy (paper2, 3 hours written exam)

Day three MCQ: (3 hours written exam)

The practical exams will be held in 1 day.

The oral exams will be held in 1 day.

C: Weighing Of Assessment (Marks allocated to courses):

Written (100 for each paper of 3 papers)

Practical (100)

Oral(100)

Total (500)

8- Methods of evaluation of the program:

Evaluator	Tool	Sample
1. Senior Students	Questionnaire at the end of the program	All the PG students
2. Alumni	The faculty is currently developing an Alumni office for postgraduates	Not yet determined
3. Stakeholders	A meeting will be arranged during annual conference of the department	Available representatives from: - Army hospitals - National medical insurance - Medical syndicate - Ministry of health

4. External Evaluators	Review program and courses Attending the final exam	Once before implementation Bi-annual report
5. College Quality Assurance committee	Annual program reviewer	

Coordinator of the program: Prof Dr. Mohamed Abdel Haye Autifi

Signature:

Date:2021 -8- 8