Al-Azhar Experience: (Innovation in Undergraduate Medical Education Program)

Khairy Abdelhameed  
*Parasitology Department, Al-Azhar University, drkhairyam@azhar.edu.eg*

Zeinab Said  
*Departments of Medical Parasitology, Al-Azhar University, Faculty of Medicine for Girls, Cairo, Egypt,*  
zeinabnabil@azhar.edu.eg

Alaa Hashem  
*Department of Gastroenterology, liver & Infectious diseases, Al-Azhar University, Faculty of Medicine, Damietta, Egypt,*  
alaahashim71@azhar.edu.eg

Alaa Meklad  
*Department of Clinical Pathology, Al-Azhar University, Faculty of Medicine for Girls, Assuit, Egypt,*  
alaamohamadmeklad@yahoo.com

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Khairy Abdel-Hamid, 1 MD, Zeinab Nabil Said,2 MD, Alaa Eden Hashem,3 MD, Alaa Mohamad Meklad, 3 MD.

*Corresponding Author:
Khairy Abdel-Hamid
drkhairyam@azhar.edu.eg

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1Medical Parasitology, Department, Faculty of Medicine, Al-Azhar University, Cairo, Egypt.
2Medical Microbiology and Immunology Department, Faculty of Medicine, Al-Azhar University, Cairo, Egypt.
3Gastroenterology, liver & Infectious diseases Department, Faculty of Medicine, Al-Azhar University, Cairo, Egypt.
4Clinical Pathology Department, Faculty of Medicine, Al-Azhar University, Cairo, Egypt.

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Editorial Report

Background: Integration in medical curricula is a newly growing governmental trend in Egypt by the end of 2017 and has been implemented in medical schools all over Egypt by the beginning of the academic year 2018/2019, where Al-Azhar Faculties of Medicine are adopting the new integrated program using different teaching & learning strategies.

Work & Results: Curriculum (Basic and Clinical phases) was outlined in terms of map, content areas, competencies & key competencies fulfilling the National Academic Reference standards (NARS) 2017. The integrated program consists of two phases fulfilling the fifth level in Harden’s Integration ladder; Phase I: Basic Science phase for two years, beginning with introductory team based term to be followed by system based for three and half terms, where problem based learning is adopted.

Eighteen horizontal and vertical integrated conventional & system-based modules (basic 80% / clinical 20%) were developed within this phase, while Twenty four horizontal and vertical integrated case based modules were designed (clinical 90% / basic 10% sciences) modules were developed in phase II for five and half terms. In addition, innovative eight professional and ten elective themes were integrated longitudinally and a project is included before graduation. Nine Islamic studies were also included as University requirements.

In phase I modules, 15 disciplines were integrated including Fundamental Structure (Anatomy & Histology), Development (Embryology), Essential Function (Physiology), Biochemical Basis (Biochemistry & Genetic), Disease Grounds (Microbiology, Parasitology & Immunology), Disease Process (Pathology), Medical Ethics & Professionalism (Soft skills, Risk Management and Patient Safety), Public Health (Epidemiology) (Research Methodology & Biostatistics), (Behavioral &Social sciences) Language (Medical Terminology & Glossary), Disease Presentation (Introduction to Clinical Skills) and Treatment Concepts (Pharmacology).

In phase II modules, 18 clinical disciplines were integrated. These disciplines are Medico-legal Sciences (Principles of Forensic Medicine &Toxicology), Community &Occupational Medicine, Diagnostic Tools (Diagnostic Radiology & Laboratory Medicine), Ophthalmology, (Ear, Nose &throat), (Dermatology, Andrology & Venereal diseases) (Gynecology &women Health), Obstetrics, Psychiatry, (Emergency Medicine &Intensive Care), (Perioperative Management, Pain therapy &Palliative Care), (Family Medicine &Geriatrics), (Pediatrics &Child Health), Internal Medicine, General Surgery, Stepping up higher level in Harden’s ladder is achieved in six modules that showed integration between Medicine, Pediatrics and surgery like Endocrinology, Nephrology &Urology, GIT, Chest, Cardiology & Cardiothoracic Surgery, Neurology &Neurosurgery, Orthopedic surgery, Rheumatology &Rehabilitation as well as Research project.

Conclusion: The experience of integration between basic and clinical sciences with inclusion of professionalism and elective courses can be seen as a new innovative and applicable approach that will fit our students for practice of medicine and be an effective members of the profession.

Take-home message: The newly developed integrated medical program at Al-Azhar University, Faculties of Medicine is primarily promoted to act as a role model for integration.

Keywords: Curriculum, Integration; Planning, Basic medical sciences; Clinical medical sciences; Undergraduate medical education; Professionalism; Elective Courses.
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