

Education

1) Undergraduates medical students (Bachelor's degree) Basic program

<https://medfac.mans.edu.eg/index.php/2020-12-06-08-52-30/2020-12-21-11-14-50/bachelor-programs/main-program>

2) Mansoura Manchester program for medical education

<https://manchester.mans.edu.eg/>

3) Postgraduate education

➤ **MSc Pediatrics**

➤ **MD Pediatrics**

<https://medfac.mans.edu.eg/index.php/2020-12-06-08-52-30/2020-12-21-11-14-00/2020-12-21-11-16-24/217-post-graduates-researches-affair-ar/course-specifacation/917-pediatrics-course-spec-ar>

4) Residency program

The pediatric residency program at Mansoura University Children's Hospital aims to teach pediatric medicine by providing a broad-based exposure to the field through optimal balance between general pediatrics, critical care, and the pediatric subspecialties.

Intended learning outcomes of the residency program:

a) Knowledge

- Acquisition of fundamental knowledge base and ability to apply such knowledge to provide appropriate clinical care.
- Acquisition of advanced theoretical knowledge, clinical examination and assessment skills required for practice within clinical specialties
- Knowledge of the indications, contraindications and complications of practical procedures and diagnostic investigations and ability to communicate this information to the parents and/or the child
- Acquisition of pharmacological knowledge of common medications used, describe their actions, interactions, and side effects.

- Understanding the duties and responsibilities of a pediatrician to educate and support parents and caregivers for effective caring of their children
- Knowledge of the community services that can support children and their families in coping with their health problems

Knowledge related to Common Pediatric Medical Conditions:

Recognition and initial management of medical conditions commonly encountered in general pediatric medicine including:

- Undifferentiated pediatric conditions
- Acute pediatric emergencies
- Chronic problems that require multi-disciplinary team approach
- Common environmental health hazards (e.g., poisoning, drug overdose)
- Common pediatric ophthalmological, orthopaedic, otorhinolaryngeal, dermatology and surgical problems

b) Intellectual skills

- . Integrate basic biomedical science with clinical care.
- . Judge reasonably and evidence based in solving clinical problems; Prioritize clinical problems, evaluate information objectively, recognizing its limitations.
- . Apply personal judgment for analytical and critical problem solving.
- . Analyze the results of history, physical and laboratory test findings to reach a meaningful diagnostic formulation.
- . Construct appropriate management strategies for patients with common diseases, both acute and chronic, including medical and psychiatric conditions.
- . Design an initial course of management for stabilization of patients with serious illnesses.
- . Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.
- . Evaluate relevant and current data from literature, using information technologies and library resources, to help solve a clinical problem based on evidence (EBM).

- . Differentiate different symptoms, signs, and disorders to reach a final diagnosis
- . Practice research and scientific methods through:
 - . Formulation of research questions that is pertinent to medicine.
 - . Recognition of the importance of precision in collecting, analyzing, and interpreting medical data.
 - . Implement the research ethics in the study design.

c) Practical skills

- . Take focused history according to the child's complaint.
- . Perform clinical examination of different systems orderly, fluently and competently and be skillful in clinical sign detection.
- . Recognize criteria of life-threatening conditions in children and initiate appropriate management.
- . Decide which patients may be managed on a general inpatient service and which require critical care.
- . Provide family-centered patient care that is culturally effective and developmentally and age appropriate.
- . Perform efficiently different invasive maneuvers as endotracheal, intraosseous line.
- . Perform the techniques of pediatric resuscitation and demonstrate competency in basic and advanced life-support measures.
- . Manipulate different diagnostic tools such as radiological, ECG, and other laboratory investigations and how to use these data in the diagnosis, management, and therapeutic drug monitoring.
- . Perform proper counseling of patients and families.

d) Communication & transferable skills

- . Adopt principles of the lifelong learning needs of the medical profession.
- . Use information and communication technology effectively in the field of medical practice.
- . Retrieve, manage, and manipulate information by all means, including electronic means.
- . Present information clearly in written, electronic and oral forms.
- . Communicate ideas and arguments effectively.
- . Work effectively within a team.
- . Analyze and use numerical data including the use of simple statistical methods.
- . Use Evidence Based Medicine in management decisions.
- . Manage time and resources effectively and set priorities.
- . Work efficiently within the health care team.
- . Solve problems related to patients, work management, and among colleagues.
- . Cope with a changing work environment.

5) Fellowship programs

- **Arab board of Pediatrics**

Objectives of the training program to obtain a certificate of specialization in pediatrics:

1. Finding a training program recognized by the Arab countries and providing training in the field of pediatrics to enable the graduate to obtain basic and applied medical information in pediatrics.
2. Securing the basic resources for the trainee to be able to acquire the basic skills to work as a qualified pediatrician
3. Providing the trainee with medical information, skills, and behaviors to enable him to take the appropriate decision in treating each patient.
4. Securing a suitable environment for scientific research.
5. Providing the trainee with professional medical behaviors.
6. Qualifying the graduate to know the causes of the spread of children's diseases in the environment in which he lives and to work on ways to combat and prevent them.

All participants will be trained in 11 pediatric subspecialties including ICU, NICU, and ER.