

**Al Azhar University
Faculty of Medicine
Department of Pediatrics
Undergraduate Program
Course Specification**



***PEDIATRICS DIPLOMA DEGREE PROGRAM
AND COURSE SPECIFICATION
2015 - 2016***

Pediatric Diploma Program Specification

A-BASIC INFORMATION:

1. *Program Title: Pediatric Diploma Degree.*
2. *Code of the course: 700-pedia-DP.*
3. *Type Of The Course: Single program.*
4. **Department Responsible For The Program:** Pediatric Department, Faculty of Medicine Al-Azhar University.
5. *Program Academic Director (head of the department): Prof. Mosallam Nasser*
6. *Coordinator Of The Program: Prof. Hassan Abosaif*
7. **Teaching hours:**
 - **Total Hours:1000 teaching hours**
 - **Lectures :200 hours.**
 - **Practical/Clinical: 800 hours.**
8. *Date Of Approval By Pediatric Department Council - Alazhar University: 18 /2/2015*

B-SPECIALIZED INFORMATION:

1- General Objective Of The Program:

By the end of the course, the postgraduate students should be able to:

- 1/1. To provide competencies, knowledge and skills pertaining to pediatrics that are required to be practiced in the community and at all levels of health care system.
- 1/2. To be familiar with the fields of Pediatrics subspecialties to enable them to participate as team members in the care of patients with acute, chronic and complex disorders.
- 1/3. To recognize health needs of infants, children and adolescents and carries out professional obligations in keeping with principles of National Health Policy and professional ethics.
- 1/4. To be aware of the contemporary advances and developments in medical sciences as related to child health
- 1/5. To continue to strive for excellence by continuing medical education throughout his other professional career.
- 1/6. To enable the development and application of appropriate professional attitudes, communication and problem solving skills.
- 1/7. Be competent in handling social and ethical issues related to the patient and his family
- 1/8. To develop competence in basic concepts of research methodology and epidemiology
- 1/9. To be able to take the lead and accept leadership from other members of the multi-disciplinary team
- 1/10. To play the assigned role in the implementation of national health programs, effectively and responsibly.

2-Intended Learning Outcomes From The Program:

2/ 1 Knowledge And Understanding:

By the end of the course, the postgraduate students should be able to:

- 2/1.1.** Identify the normal growth and development (including developmental milestones) through the neonatal period to adolescence, and the factors affecting them (genetic and environmental).
- 2/1.2.** Demonstrate the basis of genetics and its influence on diseases.
- 2/1.3.** Describe the impact of congenital and inherited diseases on children and their families.
- 2/1.4.** Identify the unique features of neonatal immunity and pathogenesis of perinatal / neonatal infection.
- 2/1.5.** Describe the causes, pathogenesis and clinical feature of the common neonatal and Pediatric problems.
- 2/1.6.** Cite the management priorities for different neonatal and pediatric life threatening conditions.
- 2/1.7.** Recognize the art of nutrition -as it relates to growing infant, child and adolescent that includes: nutritional requirements at different stages of growth, breastfeeding, formula feeding, and diseases of malnutrition.
- 2/1.8.** Describe the clinical manifestations and differential diagnosis of common Pediatric diseases.
- 2/1.9.** Describe appropriate diagnosis and management of chronic problems that require tertiary care
- 2 /1.10.** Identify basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.

2/ 2 Skills:

2/2/1 . Intellectual Skills:

- 2/2/1.1** Make decisions regarding common clinical situations using appropriate problem solving skills.
- 2/2/1.2.** Construct appropriate management strategies for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.
- 2/2/1.3.** Design assessment and management of common problems that present in infancy, childhood and adolescence.
- 2/2/1.4.** Interpretation of common diagnostic studies and proper choice among them according to the situation.

2/2/1.5. Describe prevention of diseases, immunization, control, isolation and chemoprophylaxis in cases of infectious diseases.

2/2/1.6. Detect the life threatening situations and manage according or refer.

2/2/1.7. Classify factors that risk factors for disease or injury, to determine strategies for appropriate response.

2/2/1.8. Retrieve, analyze, and evaluate the relevant and current data from the literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

2/2/1.9. Involvement into research and scientific methods through:

a. Formulation of research questions that is pertinent to medicine.

b. Recognition of the importance of precision in collecting, analyzing and interpreting medical data.

2/2/2 Professional and Practical Skills:

By the end of the course, the postgraduate students should be able to:

2/2/2.1 Respect the different cultural beliefs and values in the community they serve.

2/2/2.2. Collect relevant and focus history related to the medical problem.

2/2/2.3. Perform clinical examination of different systems orderly, fluently and competently and be skillful in clinical sign detection.

2/2/2.4. Make diagnostic and therapeutic decisions based on clinical judgment.

2/2/2.5. Choose the appropriate laboratory data as well as the imaging (radiological) according to the clinical condition.

2/2/2.6. Interpret different diagnostic tools as radiological, ECG, and other lab. investigations and how to implement these data in diagnosis, management and follow up of cases.

2/2/2.7. Recognize criteria of life threatening conditions in children and to initiate appropriate management.

2/2/2.8. Perform the techniques of neonatal and pediatric resuscitation and demonstrate competency in basic and advanced life - support measures.

2/2/2.9. Perform efficiently different invasive maneuvers as endotracheal, chest tubes, intraosseous, umbilical and central lines.

2/2/2.10. Provide family-centered patient care that is culturally effective and developmentally and age appropriate.

2/2/3 General Skills:

2/2/3.1. Apply ethical principles to clinical work, such as to display patience and kindness.

2/2/3.2. Avoid frightening of the patients and accept the unsuitable behavior of infants and children such as: urination.

- 2/2/3.3. Deal with the patient as a person not as a disease.
- 2/2/3.4. Keep all the private information about the patient`s illness confidential.
- 2/2/3.5. Deal properly with the mother, keep respecting her and evaluate well her worry about her ill child.
- 2/2/3.6. Solve problems related to patients, work management and among colleagues.
- 2/2/3.7. Respect his colleagues and a commitment to cooperate with them.
- 2/2/3.8. Exhibit and display a professional image (professional look), following the Islamic code of medical ethics.
- 2/2/3.9. Apply safety and infection control measures during practice.
- 2/2/3.10. Work efficiently within the health care team.
- 2/2/3.11. Manage time and resources effectively and set priorities.
- 2/2/3.12. Use information and communication technology effectively in the field of medical practice.
- 2/2/3.13. Retrieve, manage, and manipulate information by all means, including electronic means.
- 2/2/3.14. Present information clearly in written, electronic and oral forms.
- 2/2/3.15. Analyze and use numerical data including the use of simple statistical (methods).
- 2/2/3.16. Be prepared for the lifelong learning needs of the medical profession.

3. Academic standards of the program:

References “benchmark” Academic Reference Standards of NQAAE

4. Structure and content of the program:

A- Time duration of the program: -12 months

B- Structure of the program and methods of teaching: -

- **Total Hours:**1000 teaching hours

- **Lectures :200 hours (2 HRS/WKX 50 WKS).**

(2 hrs/wk, Al-Hussein hosp. on Saturday), Student Hall, Pediatric department, 5th floor
(2 hrs/wk, Bab Al-Shae`rya hosp. on Wednesday), Meeting Hall, Pediatric department, 6th floor

- **Practical/Clinical:** 800hours **(16 HRS/WKX 50 WKS).**

(4 hrs in the different 4 days of clinical meetings of 4 general unites of the Pediatric department inpatient wards.

C-Content of the program:

1. Growth and development
2. Behavioral & psychiatric problems
3. Nutrition & Infant Feeding
4. Human Genetics
5. Neonatology
6. Immunology
7. Allergic diseases
8. Rheumatic (collagen) diseases
9. Infectious diseases
10. Digestive system / Hepatobiliary system
11. Respiratory system
12. Cardiovascular system
13. Hematology / Oncology
14. Nephrology & Urology
15. Endocrinology/Inborn Error of Metabolism
16. Neurology
17. Pediatric emergencies , environmental hazards and social
18. Social & Preventive Pediatric (IMCI & vaccination)

5. Program courses

Courses Content: code ---title --- content ----- see in course specifications.

6. Program admission requirements:

Program admission requirements:

- ❖ Hold a bachelor's degree in medicine and surgery from one University of the Arab Republic of Egypt or equivalent degree from another scientific institute recognized from Al- Azhar University.
- ❖ Has spent postgraduate one year clinical training program as a House officer in educational or governmental hospitals or its equivalent for completion the bachelor degree.
- ❖ Got the license of medical profession practice from the medical syndicate.
- ❖ Has spent at least one year as a resident in Pediatrics department in educational or governmental hospitals
- ❖ Got at least the rating Good in the final exam of graduation and also the rating Good in the Pediatric study course.
- ❖ Certificate of good conduct from the Syndicate he or she belongs.

Regulations for progression and program completion:

- 1- Attendance Criteria: minimum acceptance attendance in each course is 70 %.
- 2- Log book should fulfilled and signed by coordinator of the Diploma degree and Head of the department.
- 3- Spent at least one year attached to the department attending the lectures, clinical rounds (6 units), the scientific days, the department conference day, the round tables and the scientific meetings.

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

A. METHOD OF ASSESSMENT

Method	What to measure of ILOs
1-Written Exam	Knowledge and understanding/Intellectual skills
2-Oral Exam	Knowledge and understanding/Intellectual skills/ General skills.
4-Clinical Exam	Professional skills/ General skills/ Intellectual skills/ knowledge& understanding.

B. TIME OF ASSESSMENT

- At the end of academic year (april and November yearly).

C. EXAMINATION SYSTEM

written examination: 3 papers, 3 hours for each

Oral examination:

CLINICAL examination:

- Short cases: 2 cases.
- Long case: 1 case.

OSCE:

D. EXAMINATION COMMITTEE

8. Methods of evaluation of the program:

Evaluator	Method	Sample
1- Graduates	Questionnaire	30%
2-External evaluator or Examiner	Report	External Evaluator Report

Head of the department
Prof. Mosallam Nasser

Coordinator of the program
Prof. Hassan Abosaif

date / /2015

Pediatric Diploma Course Specification

1- Data of the course

Code of the course: 700-ped-DP	Title of the course: Diploma of Pediatrics	Year: Post-graduate Duration: 12 weeks
Specialty: Pediatrics	Number of teaching units: 18	Lectures: 200 hours Clinical: 800 hours.

B-SPECIALIZED INFORMATION:

1-OBJECTIVES OF THE COURSE:

- 1- To possess adequate knowledge about the human body in health and disease and of various causes and basic mechanisms underlying diseases.
- 2- To develop an appropriate knowledge and skills and attitude necessary for current clinical practice to become competent in diagnosis, differential diagnosis and the ability to formulate an appropriate management of the common pediatric health problems.
- 3- To develop appropriate knowledge and skills to formulate and carry out (wherever possible) an appropriate, preventive and curative role.
- 4- To be able to recognize and manage conditions that require urgent intervention and to apply appropriate preventive measures for them.
- 5- To develop positive attitude of continuous medical education and promotion of professional skills and research capabilities.

2-INTENDED LEARNING OUTCOMS

A-KNOWLEDGE AND UNDERSTANDING:

By the end of the course the postgraduate student will be able to:

- 1- Identify the normal growth and development (including developmental milestones) through the neonatal period to adolescence, and the factors affecting them (genetic and environmental).
- 2- Demonstrate the basis of genetics and its influence on diseases.
- 3- Describe the impact of congenital and inherited diseases on children and their families.
- 4- Identify the unique features of neonatal immunity and pathogenesis of perinatal / neonatal infection.

- 5- Describe the causes, pathogenesis and clinical feature of the common neonatal and Pediatric problems.
- 1- Cite the management priorities for different neonatal and pediatric life threatening conditions.
- 2- Recognize the art of nutrition -as it relates to growing infant, child and adolescent that includes: nutritional requirements at different stages of growth, breastfeeding, formula feeding, and diseases of malnutrition.
- 3- Describe the clinical manifestations and differential diagnosis of common Pediatric diseases.
- 4- Describe appropriate diagnosis and management of chronic problems that require tertiary care
- 5- Identify basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.

B-SKILLS

I-Intellectual Skills:

By the end of the course the postgraduate student will be able to:

1. Make decisions regarding common clinical situations using appropriate problem solving skills.
2. Construct appropriate management strategies for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.
3. Design assessment and management of common problems that present in infancy, childhood and adolescence.
4. Interpretation of common diagnostic studies and proper choice among them according to the situation.
5. Describe prevention of diseases, immunization, control, isolation and chemoprophylaxis in cases of infectious diseases.
6. Detect the life threatening situations and manage according or refer.
7. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.
8. Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

9. Involvement into research and scientific methods through: **a.** Formulation of research questions that is pertinent to medicine. **b.** Recognition of the importance of precision in collecting, analyzing and interpreting medical data.

II-Professional Skills:

By the end of the course the postgraduate student will be able to:

1. Understand and respect the different cultural beliefs and values in the community they serve.
2. Collect relevant and focus history related to the medical problem.
3. Perform clinical examination of different systems orderly, fluently and competently and be skillful in clinical sign detection.
4. Make diagnostic and therapeutic decisions based on clinical judgment.
5. Choose the appropriate laboratory data as well as the imaging (radiological) according to the clinical condition.
6. Interpret different diagnostic tools such as radiological, ECG, and other laboratory investigations and how to implement these data in the diagnosis, management and follow up of cases.
7. Recognize criteria of life threatening conditions in children and to initiate appropriate management.
8. Perform the techniques of neonatal and pediatric resuscitation and demonstrate competency in basic and advanced life - support measures.
9. Perform efficiently different invasive maneuvers as endotracheal, chest tubes, intraosseous, umbilical and central lines.
10. Provide family-centered patient care that is culturally effective and developmentally and age appropriate.

III-General Skills:

By the end of the course the postgraduate student will be able to:

1. Apply ethical principles to clinical work, such as to display patience and kindness.
2. Avoid frightening of the patients and accept the unsuitable behavior of infants and children such as: urination.
3. Deal with the patient as a person not as a disease.
4. Keep all the private information about the patient`s illness confidential.
5. Deal properly with the mother, keep respecting her and evaluate well her worry about her ill child.
6. Solve problems related to patients, work management and among colleagues.
7. Respect his colleagues and a commitment to cooperate with them.
8. Exhibit and display a professional image (professional look), following the Islamic

code of medical ethics.

9. Apply safety and infection control measures during practice.
10. Work efficiently within the health care team.
11. Manage time and resources effectively and set priorities.
12. Use information and communication technology effectively in the field of medical practice.
13. Retrieve, manage, and manipulate information by all means, including electronic means.
14. Present information clearly in written, electronic and oral forms.
15. Analyze and use numerical data including the use of simple statistical (methods).
16. Be prepared for the lifelong learning needs of the medical profession.

3-COURSE CONTENT:

THE TOPICS	WEIGHT (%)	Teaching hours		
		Lectures	Clinical	Total
1. Growth and development	5			
2. Behavioral & psychiatric problems	2			
3. Nutrition & Infant Feeding	10			
4. Human Genetics	2			
5. Neonatology	10			
6. Immunology	2			
7. Allergic diseases	3			
8. Rheumatic (collagen) diseases	3			
9. Infectious diseases	9			
10. Digestive system / Hepatobiliary system	7			
11. Respiratory system	5			
12. Cardiovascular system	7			
13. Hematology / Oncology	7			
14. Nephrology & Urology	5			
15. Endocrinology/Inborn Error of Metabolism	7			
16. Neurology	7			
17. Pediatric emergencies & environmental hazards	5			
18. Social & Preventive Pediatric (IMCI & vaccination)	4			
THE TOTAL	100			

4- METHODS OF TEACHING:

Teaching Hours for Pediatric Course:

Total teaching hours: **1000** hours over **12** month's (50 weeks) duration.

Distributed as follow:

- **Lectures:** 4 hours × 50 days = **200 hours.**
- **Clinical Sessions:** 4 hours X 4 days/week(16 hours/ wk) × 50 days = **800 hours.**

5-ASSESSMENT OF THE COURSE:

A- Method of assessment:	<ul style="list-style-type: none">- Written exam- Clinical exam- Oral exam
B- Time of assessment	End-year exam: In November or In April
C- Allocated marks and exam system	<p><i>Allocated Marks For Evaluation Of The Pediatric Course:</i></p> <p>-Total allocated marks: 600 degrees Disturbed as follows:</p> <p> <input type="checkbox"/> Written exams: (200 degrees)</p> <p> Paper I: 2- MCQ (20) + 8 short questions (80) = 100 degrees</p> <p> Paper II: 2- MCQ (20) + 8 short questions (80) = 100 degrees</p> <p> <input type="checkbox"/> Clinical & Oral exams: (400 degrees)</p> <p> 1- Long case: 100 degrees</p> <p> 2- Short cases: 2 X 50 = 100 degrees</p> <p> 3- OSCE: 75 degrees</p> <p> 4- Oral exam sessions: 3 X 75 = 225 degrees</p>
D- Examination comitte	<i>Pof. Mosallam Nasser</i>

6-TEACHING BOOKS, NOTEBOOKS, AND REFERENCES:

<ul style="list-style-type: none">- Books/Notebooks:	<ul style="list-style-type: none">- Nelson textbook 20th eddition. 2015- Departmental book 2014
<ul style="list-style-type: none">- References:	<ul style="list-style-type: none">- Basic pediatrics

Director Of The Course:
Prof. Mosallam nasser

Course Coordinator:
Prof. Hassan Abosaif

date: / / 2016