

Pediatrics Course specification

Code : AMED 019

Fifth year of M.B.B.Ch.

Program

2017-2018

- **Programme(s) on which the course is given: M.B.B.Ch.**
- **program Department offering the course: Pediatrics**
- **Department Academic year / Level: Fifth year**

1. Basic information

- **Title: Pediatrics**
- **Code: Amed019**
- **Lecture: 108 hours**
- **Tutorial/Practical: 132 hours (12 weeks)**
- **Total: 240 hours**
- **External evaluators: Prof Dr. Ali Abo Elmagd Ahmed Date of last revision: 8/2011**

2. Overall aims

- To provide the students with the knowledge that enable them to identify the normal growth and development (physical and mental), and its clinical application from birth through adolescence
- To enable the students to provide basic health care for individuals in the Pediatric age group (neonates, infants, children, and adolescents)
- To provide the students with an appropriate background covering the common and important pediatric emergencies and diseases
- To enable students to develop and apply appropriate professional attitudes, communications and problem solving skills

3. Intended learning outcomes (ILOs)

A. knowledge and understanding

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

- A1- Describe normal growth and development during infancy, childhood and adolescence
- A2- Describe appropriate management for abnormalities affecting growth and development

- A3- identify nutritional requirements and the most common pediatric nutritional disorders and their management
- A4- describe the indications, contraindications, administration and precautions of the immunizations necessary for infants and children according to the national schedule and the condition of the child
- A5- identify the most important behavioral issues during childhood and adolescence
- A6- identify the impact of congenital and inherited diseases on children and their families
- A7- define the management priorities for different neonatal and pediatric emergencies
- A8- Identify causes and pathogenesis of the most important neonatal and pediatric diseases and describe the therapeutic lines for the most important neonatal and pediatric problems
- A9- Describe appropriate measures for health promotion as well as prevention of disease and injury in infant, children and adolescents.

B. Intellectual skills

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

- B1- Comprehend the most important symptoms and signs of disease in Pediatric patients
- B2- Apply appropriate management plans for individual patient presenting with the most common Pediatric disorders.
- B3- Make judgment regarding common clinical situations using appropriate problem solving skills.
- B4- Assess X-ray and lab reports of blood picture, C.S.F analysis, urine analysis ESR and ASOT test reports covering the most important Pediatric conditions.
- B5- Recognize different neonatal and pediatric emergencies

C. Professional and practical skills

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

- C1- Obtain a proper history from a patient in the pediatric age group
- C2-Assess/ follow vital signs in neonates, infants, children and adolescents
- C3- Assess/ follow physical and mental development in neonates, infants, children and adolescents according to standard milestones.
- C4- Perform appropriate clinical and anthropometrics assessments for the nutritional status of infants and children
- C5- Perform an adequate clinical examination for a patient in the pediatric age group and observe deviations from normal
- C6- Manage neonatal care and neonatal resuscitation in the delivery room
- C7- Provide inhalation therapy, IM injections and nasogastric tube insertion
- C8- Provide basic life support (BLS) for infants and children
- C9- Assemble patients data in an organized and informative manner
- C10 – Perform an adequate clinical examination for a patient with nutritional edema, marasmus, kwashiorkor or rickets
- C11- Perform an adequate clinical examination for a patient with neonatal jaundice
- C12- Perform an adequate clinical examination for a patient with acute diarrhea without dehydration, acute diarrhea with dehydration, dysentery, or liver cirrhosis
- C13- Perform an adequate clinical examination for a patient with bronchopneumonia, lobar pneumonia, pleural effusion, bronchiolitis, wheezy chest.

C14- Perform an adequate clinical examination for a patient with rheumatic heart disease or congenital heart diseases (VSD and Fallots tetralogy)

C15- Perform an adequate clinical examination for a patient with iron deficiency anemia, hemolytic anemia, aplastic anemia, splenomegaly, hepatosplenomegaly or purpra.

C16- Perform an adequate clinical examination for a patient with nephritic syndrome or nephritis

C17- Perform an adequate clinical examination for a patient with Down syndrome

C18- Perform an adequate clinical examination for a patient with cerebral palsy

C19- Interpret the radiological features of :

Normal hewart, cardiomegaly of different etiologiesand pericardial effusion

Normal chest X ray. Lobar pueмония, bronchopneumonia, pleural effusion, lung collapse, lunge abscess, pneumothorax, hydropneumothorax, and military shadow.

Normal skull X-ray, skull fractures, intracranial calcification, increased intracranial pressure, craniostenosis, and chronic hemolytic anemia

Richets and chronic hemolytic anemia

D. General skills

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

D1- Describe strategies using the available community resources

D2- follow different models for assessing client needs, considering the children needs of the society

D3- Communicate effectively with children, adolescent and their families

D4- Follow appropriate professional attitudes and behaviors in different practice situations including history taking and counseling

D5- Deliver information to the patients and their families in a respectable manner

4- Course contents

Topic of	No. Hours	Lecture r	Tutorial/P
General Pediatrics	10	6	4
Vaccination	6	5	1
Growth and development	15	8	7
Nutritional disorders	22	10	12
Infant feeding and Neonatology	17	8	9
Genetics	9	3	6
Nephrology	16	6	10
Cardiovascular	19	9	10
Respiratory	18	8	10
Hematology	20	10	10
Infectious diseases	18	8	10
Endocrinology	8	3	5
Neuromuscular disorders	12	6	6
Gastroenterology and Hepatology	25	10	15
Pediatric emergencies, poisoning	8	1	7
Behavioral Pediatrics	4	3	1
rheumatology	4	3	1
IMCI	4	2	2
Practical procedures	5		5
total	240	109	131

5- Teaching and learning Methods

- 1- Lectures for knowledge and understanding
- 2- Practical sessions for physical signs detection
- 3- Tutorials for case discussion and problem solving
- 4- Clinical round for case presentations
- 5- Skill Lab training
- 6- Small groups teaching for history taking and counseling
- 7- Sessions for interpreting lab reports

8- Sessions for photographic materials

Facilities required for teaching and learning

1-

Lecture

halls 2-

Skill

lab

tools

3-Audio visual aids (data shows, overhead projectorsetc 4- Computers and internet facilities

5- Faculty library

6- Central library of the

Assiut University 7- Skills

laboratory

8- Beds, clinical, and operative facilities of Assiut University Hospitals

6- teaching and learning methods for students with learning difficulties

Special clinical teaching classes -

5- Student assessment Methods

1- Written exams to assess knowledge and intellectual ILOs (a1-a10, b1-b4)

2- Oral exams to assess knowledge, general and intellectual ILOs (a1-

a10, b1-b4, d1-d4) 3-Clinical examinations to assess intellectual,

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Practical and general ILOs (c1-c6, b1-b4, d1-d4)

4- practical examination to assess practical and intellectual ILOs (c1-c6, b1-b4).

Assessment schedule

Assessment 1 : written MCQ examination during clinical round : one with marks and one without marks

Assessment 2: written exam at the end of the clinical round including MCQs and case scenario

Assessment 3: clinical examination by the end of the clinical round in the form of OSCE stations including X rays, photographs, laboratory reports, patient counseling, history taking, clinical examination and skills through a check list

Assessment 4: final written examination by the end of the year

Paper 1: short essay, problem solving MCQ, matching and true & false

Paper 2: short essay, problem solving, MCQ , matching and true & false
Assessment 5: final clinical examination by the end of the year in the form of OSCE stations including X rays, photographs, laboratory reports, patient counseling , history taking, clinical examination and skills through a check list in addition to one long case

Assessment 6: final oral examination by the end of the year (the student choose 2 cards in ascending or descending manner of severity).

Weighting of assessments

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وحدة ضمان الجودة

الخطة الاستراتيجية ٢٠١٨/٢٠١٧

جامعة أسوان - كلية الطب

Mid-term exam (1& 2)	20%
Final written exam	50%
Final Clinical exam	24%
Final Oral exam	6 %
Total	100%

8- List of references:

1. Course notes: Lectures note
2. Essential books: Nelson textbook of Pediatrics (2016),
Illustrated Textbook of Pediatrics (2017)
3. Recommended books: Nelson Essentials (2016),
Macleod's Clinical Examination With student
4. Periodicals and web sites of Pediatrics

Examination committee:

Prof. Hanan Mohammed Abd El-Moeim

Dr. Mohammed Bahaa El-Hawary

Dr. Ahmed Ragab

Dr. Mohsen Abd El-satar

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وحدة ضمان الجودة

الخطة الاستراتيجية ٢٠١٧/٢٠١٨

جامعة أسوان _ كلية الطب

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Revised in 9/ 2017

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