



COURSE SPECIFICATION

2nd part MD Pediatrics–Elective Course CARDIOLOGY

Faculty of Medicine– Mansoura University

- Administrative information

(1) Programme offering the course.	MD Pediatrics (PED 600)
(2) Department offering the programme.	Pediatrics
(3) Department responsible for teaching the course.	Pediatrics
(4) Part of the programme.	2nd part – Elective course CARDIOLOGY
(5) Date of approval by the Department's council	27/4/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Elective course MD CARDIOLOGY
(8) Course code.	PED 609 ACA
(9) Total teaching hours.	45 hours

Professional information

(1) Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

1-To provide basic and advanced knowledge of uncommon and sophisticated pediatric cardiovascular disorders.

2- To develop skills of analyzing different investigatory tools (ECG,ECHO,CXR) for optimum management of cardiovascular disorders.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A. Knowledge and Understanding

- **A1.** Define indications and limitations of ECG in routine cardiac evaluation.
- **A2.** Identify the value of Echocardiography in the diagnosis of congenital heart disease.
- **A3.** State indications and limitations of MRI in congenital and acquired heart disease.
- **A4.** Define indications and limitations of ambulatory ECG in cardiac arrhythmias.
- **A5.** State the role of cardiac catheterization in congenital heart disease.
- **A6.** Determine types of arrhythmias in children.
- **A7.** Outline the pharmacologic management of arrhythmias in children.
- **A8.** Identify the role of radiofrequency ablation in treatment of arrhythmias in children.
- **A9.** Outline strategies of cardiovascular health promotion in children.
- **A10.** State types and indications of cardiac surgery.
- **A11.** Determine complications of cardiac surgery.

B. Intellectual skills

- **B1.** Construct appropriate management strategies for patients with congenital and acquired pediatric cardiovascular diseases.
- **B2.** Design an initial course of management for stabilization of patients with serious cardiovascular emergencies .
- **B3.** Classify factors that place individuals at risk for CHD or acquired cardiac problems , to determine strategies for appropriate health promotion.
- **B5.** Interpret different investigatory tools in congenital heart disease.

(3) Course content:

Elective Pediatric MD cardiology Course

Subjects	Lectures	Clinical
Indications and limitation of routine cardiac evaluation in children :HX and clinical examination	3	B4
Indications and limitation of routine cardiac evaluation in children :ECG	3	A1-B4-B5
Indications and limitation of routine cardiac evaluation in children :CXR	3	B4
Indications and limitation of routine cardiac evaluation in children: :Echocardiography	3	A2-B2-B4-B5
Indications and limitation of routine cardiac evaluation in children :MDCT	3	B4
Indications and limitation of routine cardiac evaluation in children :MR imaging	3	A3-B4-B5
Indications and limitation of routine cardiac evaluation in children :Ambulatory ECG	3	A4-B4
Indications and limitation of routine cardiac evaluation in children :cardiac catheterization	4	A5-B4
Management of arrhythmia ;Pacemakers and ICDs	4	A4-A6-B2
Management of arrhythmia ;pharmacotherapy	3	A7-B2
Management of arrhythmia ; radiofrequency ablation	4	A8-B2
Cardiovascular health promotion in children	3	A9-B3
Indications and anticipated results of cardiac surgery	3	A10-B1
Postoperative complications of cardiac surgery	3	A11
Total	45	

(4) Teaching methods:

4.1: lectures and scientific seminars

4.2: Self learning

(5) Assessment methods:

5.1:...Written. for assessment of..... (knowledge, intellectual skills)

5.2:... Oral for assessment of.....(knowledge, intellectual skills)

5.3 MCQ continuous assessment for assessment of..... (knowledge, intellectual skills)

Assessment schedule : Semester & Final Exam.

Course	Marks		
	MCQ (Semester Exam)	Essay (Final Exam)	Oral
Cardiology	12	48	30
Total	90		

(6) References of the course:

6.1: Lectures Hand out notes.....

6.2: Text books:...Nelson Textbook of Pediatrics ,pediatric cardiology Robert Andreson
.AHA fellowship program for general pediatric cardiology 2015

6.3: Journals:,circulations,pediatric cardiology ,cardiology of the young

6.1: Websites:...www.google.com www.pubmed.com.....

(7) Facilities and resources mandatory for course completion:

- **LECTURE HALLS:** Two halls for lecturers are available at Mansoura University Children's Hospital (MUCH). The hall is equipped with white board, data show, and computer.
- **CLINICAL ROUNDS HALLS:**
Six halls for clinical rounds are available at Mansoura University Children Hospital (MUCH). Computer and AV aids facilities are available with prior arrangement.
- **LIBRARY:**

The library is located on the 4th floor of the Faculty of Medicine, Mansoura University.

- **FACILITIES FOR TUTORS**

In addition to the library on 4th floor of the Faculty of Medicine, Mansoura University, there is a specialized paediatric library at MUCH (Professor Mohammad Hafez's Library).

The offices of all staff at MUCH is equipped with computers and high speed internet connection.

International databases are available through the website of the university
(www.mans.edu.eg)

Course coordinator: Prof Mohamed Magdy abouelkheir

Head of the department: Prof. Ali Shaltout

Date: