

# Mansoura University, Faculty of Medicine



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Programme for medical education



## Year 5 Course Specifications

Semester 10

Families and Children(FC)

(MPPh2S10FC)

University of Mansoura

Faculty of Medicine

### Course specifications

Programme(s) on which the course is given: Mansoura Manchester Programme for Medical Education

Major or minor element of programmes: Neonatal and Child health and Maternal health

Department offering the Programme: All Faculty Departments

Department offering the course: Obstetrics, Gynecology and Pediatrics Departments

Academic year / Level 5<sup>th</sup> year, 10<sup>th</sup> semester.

Date of specification approval: May 3016

### A- Basic Information

Title: Families and Children

Code: MPPh2S10FC

**Teaching Hours: /week**

**Lecture: 5 h/w**

**Tutorial: 3 h/w**

**Practical: 14 h/w**

**Total: 22 h/w**

### B- Professional Information

1 – Overall aims of course

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The general aim of the course is to provide student with Knowledge, skills and attitudes necessary to make an essential obstetrics and gynecology framework of the general practitioner including awareness of the common obstetrics and gynecology emergencies.

Semester 10 is about female health, normal and abnormal pregnancy, normal neonates, common neonatal problems, child health and common childhood diseases. Each PBL case contains clues encouraging the students to extract and analyze the case learning outcomes which by turn meet the learning outcomes for the semester. Each case is integrated and prepared in a manner which raises potential learning objectives related to knowledge, skills and attitudes in all areas of gynecological, maternal, neonatal and child health and welfare.

### 2 – Intended learning outcomes of course (ILOs)

#### a- Knowledge and understanding:

**By the end of this course the student will be able to:**

#### Gynecology and obstetric

- a.1- List the various physiologic maternal changes in response to pregnancy, nutritional requirements and different precautions in early pregnancy. Describe the normal and abnormal anatomy of fetal skull and female bony pelvis
- a.2-Recognize the various complications in early pregnancy including abortion, molar pregnancy and ectopic pregnancy and recognize various complications in late pregnancy.
- a.3 Describe the various causes of antepartum hemorrhage, their diagnosis and management.
- a.4- List the various medical disorders complicating pregnancy and their management.
- a.5- Review different hypertension related disorders related to pregnancy, their risk factors, prevention of complications and their management.
- a.6-Recognize the different teratogenic subjects and their effects on the growing fetus.
- a.7-Identify the normal and abnormal human parturition and its management.
- a.8-Describe the normal and abnormal uterine actions and their effect on the process of labor.
- a.9-Identify the different types of fetal injuries that may occur during labor. Get insight into the etiology, mechanism, types, diagnosis and treatment of common Obstetric injuries (pelvic floor trauma, urinary injuries, rectal injuries and rupture uterus).
- a.10- Review the different operative interventions in obstetrics and knowledge of the different drugs use (analgesia and anesthesia)
- a.11-Enumerate the various causes of genital tract infection, common pathogens and common

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infection routes and risk factors.

- a.12-Knowledge of the different sexually transmitted diseases, their mode of infection, their prevention, diagnosis and management.
- a.13-Discuss the different causes of abnormal uterine bleeding and how to diagnose and manage.
- a.14-Outline the different causes of male and female infertility, how to diagnose and manage.
- a.15-Discuss the various types of benign tumors affecting the genital system, the etiology, pathology, diagnosis and treatment.
- a.16-Enumerate the groups of symptoms of the genito-urinary tract.
- a.17-Identify the different aspects of pelvic floor function and its disorders.
- a.18-Recognize the different methods and indications of contraception.
- a.19- Review the reproductive medicine and women's health.
- a.20-Identify the common uses of laparoscopy in Obstetrics and Gynecology; both diagnostic and therapeutic.
- a.21-Enumerate the different uses of ultrasound in Obstetrics and Gynecology.

## Pediatric

- a.22-Recognize the normal growth and development during infancy, childhood and adolescence.
- a.23-Identify the abnormal pattern of growth and development during infancy and childhood.
- a.24-Identify common genetic diseases and their impact on children and families.
- a.25- 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.
- a.26-Delineate the nutritional requirements and the most common nutritional disorders affecting infants and children and describe appropriate management for nutritional disorders
- a.27-Describe the causes, pathogenesis, clinical symptoms, signs and prognosis of the most important neonatal and Pediatric problems.
- a.28-Identify the appropriate Diagnostic tools (and describe how they would be interpreted) and therapeutic lines for the most important Neonatal and Pediatric problems.
- a.29-Describe appropriate measures for health promotion as well as prevention of disease and injury in infants, children and adolescents.

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### **b- Intellectual skills**

- b.1. Employ basic biomedical science with clinical care of gynecologic and obstetric patients.
- b.2. Solve clinical problems related to the gynecologic, reproductive and obstetric medicine.
- b.3. Apply personal judgment for analytical and critical problem solving.
  
- b.4. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- b.5. Compose appropriate management strategies for patients with gynecologic reproductive and obstetric diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.
- b.6. Propose an initial course of management for stabilization of patients with serious illnesses.
- b.7. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.
- b.8. 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.
- b.9. Appraise and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to uncertain situation through proper counseling, consultation and referral.
- b10- Interpret the most important symptoms and signs of disease in pediatric patients.
- B11- Formulate appropriate management plans for individual patients presenting with the most common pediatric disorders.
- B12- Formulate the medical problems and their differential diagnoses.
- B13- Interpret X rays and urine analysis.

### **c- Professional and practical skills**

**By the end of this course the student will be able to:**

- c.1- Design history in a patient complaining of an obstetric and gynecologic complaint.
- c.2- Perform effective communication with the patient.
- c.3- Recognize criteria of life threatening situations in Obstetrics and Gynecology.
- c.4- Observe how a patient in the outpatient clinic is interviewed and examined.
- c.5- Do obstetric grip examination.
- c.6- Recognize fetal heart sounds by Pinard's stethoscope and sonicaid.
- c.7- Differentiate the normal and abnormal colposcopic findings.
- c.8- Observe normal vaginal delivery.

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- c.9-Observe cesarean section delivery.
- c.10-Interpret the hysterosalpingogram and semen analysis for infertile couples.
- c.11-Identify the equipment used in the Obstetrics and Gynecology department: theatre, outpatient and inpatient.
- c.12-Assess the mental state of the patient.
- c.13- Record patients ' data appropriately.
- c.14-Formulate a management plan for common gynecologic reproductive and obstetric diseases and acute emergencies.
- c.15-Adopt suitable measures for infection control.
- c.16 -Record a structured patient-centered medical history.
  
- c.17-Examine vital signs in neonates, infants, children and adolescents.
  
- c.18-Assess physical and mental development in neonates, infants, children and adolescents according to standard milestones and recognize abnormalities.
  
- c.19-Perform appropriate clinical and anthropometric assessments for the nutritional status of infants and children and use of national growth charts.
  
- c.20-Perform an adequate clinical examination for a patient in the Pediatric age group and identify deviations from normal.
  
- c.21-Construct appropriate management strategies both diagnostic and therapeutic for patients with common acute and chronic pediatric diseases.
  
- c.22-Assess, classify and describe appropriate treatment for sick children below the age of five years according to the principles of the Integrated Management of Childhood Illness (IMCI).
  
- c.23-Interpret patient's data in an organized and informative manner.
  
- c.24-Use BNF for determining dose, route, interval and contraindications of different medications prescribed for pediatric age group.
  
- c.25-Formulate communication clearly, sensitively and effectively with patients and their relatives and colleagues regardless of their social and cultural backgrounds.
  
- c.26-Manage for breaking bad news and show compassion to patients and their relatives in situations of stress and grief.
  
- c.27-Practice neonatal resuscitation.
  
- c.28-Use of inhalation devices.
  
- c.29-Insert peripheral and central venous lines, Umbilical venous and arterial catheter and urinary bladder catheter.

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c.30- Perform lumbar puncture and measure blood glucose level with interpretation of different values.

### d- General and transferable skills

**d1-**Manage and present information (oral, electronic and SSC formats) and communicate ideas and arguments effectively.

**d2-**Work effectively within a multidisciplinary team.

**d3-**Manage time and resources effectively and set priorities.

**d4-**Use computers efficiently in reaching biomedical information to remain current with advances in knowledge and practice.

### 3- Contents

Topic No. of hours Lecture Tutorial/Practical

Topics	No. of hours	Lectures	Tutorial/Practical
<b><u>Gynecology and Obstetrics</u></b>			
History taking in Gynecology	3	●	
History taking in Obstetrics.	3	●	
Examination of gynaecologic patient.	3	●	
Examination of obstetric patient.	3	●	
Investigations in OBS&GYN	3	●	
Physiological changes during pregnancy	1	●	
Physiology of normal labor	1	●	
Management of normal labor	1	●	
Pain management during labor	1	●	
Puerperium and P. sepsis	1		●

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Antenatal care	1		•
Antenatal fetal wellbeing tests	1		•
Care of the Neo-born	1		•
Maternal pelvis, fetal skull & normal labor	1		•
Partogram of normal labour	1		•
Puberty	1	•	
Menopause	1	•	
Abnormal uterine bleeding	1	•	
PCOS and Hirsutism	1	•	
Uterine Fibroids	1	•	
Life cycle in women & Conveying bad news.	1		•
Genital prolapsed	1		•
Adenomyosis	1		•
Fibroids & End. hyperplasia	2		•
Benign Adnexal/uterine masses	2		•
Recurrent miscarriage	1		
Malpresentations -1(OP)	1		
Malpresentations -2 (Breech)	1		
PROM	1		
Fetal distress in labour	1		
Caesarean section	1		
Diagnosis of abnormal labour pattern	1		
Evidence-Based Medicine	1		

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Malpresentations (face & brow)	2		
Malpresentations (Cord and Complex)	2		
Vaginitis & cervicitis	1	•	
PID	1	•	
STD	1	•	
Ectopic pregnancy	1	•	
Contraception	1	•	
Amenorrhea	1		
Endometriosis	1		•
Urinary disorders-(SUI & Urge incontinence )	1		•
Speculum ex & swabs. Investigations of infertility	2		•
Methods of Contraception.	2		•
Diabetes with pregnancy & Macrosomia & shoulder dystocia	1	•	
Heart disease with pregnancy	1	•	
Thrombo-embolisation with pregnancy	1	•	
Polyhydramnios & oligohydramnios	1	•	
Renal diseases with pregnancy.	1	•	
Management of DM.	1		•
Neonatal resuscitation	1		•
Ethics in Obs&Gyn and medical negligence	1		•
Assessment of Fetal growth in-utero	2		•
Partogram	2		•
Indications & techniques of ART	1	•	



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Multifetal gestation	1	•	
Preterm and Post term labor	1	•	
Antepartum hge (PP)	1	•	
PIH (preeclampsia)	1	•	
Hyperemesis gravidarum	1		•
Placental abruption	1		•
PIH (eclampsia)	1		•
Twin delivery	2		•
Antepartum hge	2		•
Endometrial carcinoma	1	•	
Cancer cervix-1	1	•	
Cancer cervix-2	1	•	
Gestational trophoblastic tumours	1	•	
Cancer vulva	1	•	
Urinary/GI injuries in gynae surgery	1	•	
G.U fistulae	1		•
Colposcopy &hysteroscopy	1		•
Endometrial & Cancer Cx.	2		•
Cancer vulva and GTD.	2		•
<b><u>Pediatric</u></b>			•
<b>History taking &amp; examination</b>	12	6	•
<b>Common Respiratory Problems in Children</b>	10	5	5
<ul style="list-style-type: none"> <li>• Bronchial asthma</li> <li>• Pneumonia</li> </ul>			

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<ul style="list-style-type: none"> <li>• Upper respiratory tract infection and whooping cough</li> <li>• Acute bronchiolitis</li> <li>• Wheezy infant</li> <li>• Foreign body inhalation</li> </ul>			
<p><b>Common Pediatric Infections, Immunization and Nutritional Disorders</b></p> <ul style="list-style-type: none"> <li>• Meningitis</li> <li>• Fever with rash</li> <li>• Immunization</li> <li>• Protein caloric malnutrition</li> <li>• Rickets</li> <li>• Breast feeding</li> </ul>	10	5	5
<p><b>Endocrinal Disorders in Pediatrics</b></p> <ul style="list-style-type: none"> <li>• Diabetes mellitus</li> <li>• Thyroid disorders</li> <li>• Short stature</li> <li>• Hypopituitarism</li> <li>• Puberty</li> </ul>	10	5	5
<p><b>Genetic Diseases in Pediatrics</b></p> <ul style="list-style-type: none"> <li>• Mode of inheritance</li> <li>• Gene and chromosomes</li> <li>• Down syndrome</li> <li>• Teratogenicity</li> <li>• Mental retardation</li> <li>• Genetic counselling</li> </ul>	10	5	5
<p><b>Neurological Disorders in Pediatrics</b></p> <ul style="list-style-type: none"> <li>• Cerebral palsy</li> <li>• Epilepsy</li> <li>• Hydrocephalus</li> <li>• Floppy Infant</li> <li>• Emergency management of seizures</li> </ul>	10	4	6
<p><b>Common Cardiovascular Problems in Pediatrics</b></p> <ul style="list-style-type: none"> <li>• Congenital acyanotic heart diseases</li> </ul>	10	5	5

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<ul style="list-style-type: none"> <li>• Congenital Cyanotic heart diseases</li> <li>• Rheumatic fever</li> <li>• Heart failure</li> <li>• Infective endocarditis</li> </ul>			
<b>Common Neonatal Problems</b> <ul style="list-style-type: none"> <li>• Neonatal Resuscitation</li> <li>• Neonatal hypoglycemia</li> <li>• Birth asphyxia</li> <li>• Respiratory Problems in neonate</li> <li>• Birth asphyxia</li> <li>• Neonatal jaundice</li> </ul>	12	5	7
<b>Common Gastroenterology and Hepatology Problems in Pediatrics</b> <ul style="list-style-type: none"> <li>• Acute hepatitis</li> <li>• Chronic hepatitis and chronic liver disease</li> <li>• Neonatal cholestasis</li> <li>• Gastroenteritis</li> <li>• Constipation and diarrhea</li> </ul>	6	4	2
<b>Pediatric Nephrology</b> <ul style="list-style-type: none"> <li>• Overview of glomerular diseases</li> <li>• Nephrotic syndrome</li> <li>• Acute nephritis</li> <li>• Acute renal failure</li> <li>• Urinary tract infection</li> </ul>	10	5	5

#### 4- Teaching and learning methods

4.1-Lecture

4.2-Clinical training and clinical seminars

4.3-Problem based learning (PBL)

4.4-Student selected component (SSC)

#### 5- Student assessment methods

5.1MCQ .....to assess Knowledge and understanding.

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5.2 Short essay.....to assess Knowledge and skills.

5.3 OSCE ..... to assess Skills & and attitude.

5.4 SSC .....to assess Over all performance.

### Assessment schedule

Assessment 1 midterm exams	Week 9
Assessment 2 MCQ	Week Final exams
Assessment 3 Short essay	Week Final exam
Assessment 4 OSCE	Week Final exam
Assessment 5 ongoing assessment	Every PBL

### Weighting of assessments

Mid-Term Examination 8.8 %

Final-term Examination 47%

Oral Examination.0%

Practical Examination 29.4 %

Semester Work 14.7%

Other types of assessment 0 %

Total 100%

Any formative only assessments

### 6- List of references

6.1- Course notes

Student's module book

6.2- Essential books (text books)

Nelson essentials of pediatrics

Illustrated textbook of paediatrics

6.3- Recommended books

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Gomella Neonatology

Nelson textbook of paediatrics

6.4- Periodicals, Web sites, ... etc

<http://www.ncbi.nlm.nih.gov/pubmed/>

<http://www.sciencedirect.com/>

<http://www.uptodate.com>

### 7- Facilities required for teaching and learning

1. A Theatre which can accommodate 100 students.
2. Medical Wards and clinical teaching rooms in University Hospitals: Mansoura University Children's Hospital.
3. Data show and PC with windows xp as an operating system and office 2007.
4. Ten PBL rooms which accommodate 10 students each (**about 18 to 20 room**).

**Course coordinator: Ass.Prof. Rafik Barakat**

**Programme Director: Prof./ Nagy A.H. Sayed-Ahmed**

**Date: May 2016**