



MEDICINE AND SURGERY

Course: Obstetrics and Gynecology

Year (1st-2nd-3rd-4th-5th-6th): 5th

Period (1st-2nd semester – annual): 2nd semester

Credits: 5+2 (professionalizing activities)

Objectives

Overview

The course aims at acquainting the student with the varied aspects of medical care for women, giving an up-to-date knowledge about gynecological and obstetrical diseases, their diagnosis and treatment. Formal teaching lessons will include an interactive part and will be accompanied by professionalizing activities with the assistance of tutors.

Learning goals

Students should become able to correctly perform gynecological and obstetrical anamnesis, physical examination of the gynecological/obstetrical patient, to organize a diagnostic workout and a therapeutic plan for gynecological and obstetrical diseases. They should also acquire basic knowledge about the practical treatment of obstetrical complications during pregnancy and delivery. Students should also become able to recognize and discuss the basis of bioethical conflicts in women's health care.

Prerequisites

The course prerequisites include the knowledge of the fundamentals in: basic sciences, anatomy, physiology, pharmacology, internal medicine and the basic principles of general surgery. As a general prerequisite the students must have passed all the exams of the previous years.

Contents

1. Gynecological Endocrinology 1

- 1.1. Brief summary of woman's pelvic anatomy
- 1.2. Malformations of the female reproductive tract
- 1.3. Hypothalamic-pituitary-ovarian axis: central and peripheral regulation of the menstrual cycle
- 1.4. Amenorrhea and diagnostic workout of menstrual disorders

2. Gynecological Endocrinology 2

- 2.1. Precocious ovarian insufficiency and fertility preservation
- 2.2. Hyperandrogenism, polycystic ovary and the metabolic syndrome
- 2.3. Dysmenorrhea and Premenstrual Syndrome
- 2.4. Menopause and its complications

3. Reproductive Gynecology 1

- 3.1. Gametogenesis in the ovary and in the testis
- 3.2. Fertilization, embryo development and implantation
- 3.3. Diagnostic workout of couple's infertility and treatment
- 3.4. Placentation and normal fetal development

4. Reproductive & benign gynecology

- 4.1 Endometriosis
- 4.2 Ovarian reserve
- 4.3 Medically Assisted Reproduction (MAR)
- 4.4 Family planning and contraception

5. Benign gynecology 1

- 5.1. Uterine myomas and polyps
- 5.2. Uterine prolapse
- 5.3. Urinary incontinence in the woman
- 5.4. Pelvic inflammatory disease and ectopic pregnancy

6. Obstetrics 1

- 6.1. Medical pregnancy care workout
- 6.2. Spontaneous and voluntary abortion
- 6.3. Recurrent pregnancy loss
- 6.4. Autoimmune diseases in pregnancy

7. Obstetrics 2

- 7.1. Prenatal diagnosis
- 7.2. Fetal malformations

7.3. Fetal growth disorders

7.4. Infective diseases in pregnancy

8. Obstetrics 3

8.1. Stages of physiological labor and delivery. Dystocia

8.2. Dystocia

8.3. Cesarean section

8.4. Operative vaginal delivery

9. Obstetrics 4

9.1. Twin and multiple pregnancy

9.2. Premature rupture of membranes (PROM)

9.3. Preterm delivery

9.4. Fetal monitoring during labor

10. Obstetrics 5

10.1. Hypertensive disorders in pregnancy, pre-eclampsia and eclampsia

10.2. Gestational diabetes

10.3. Placenta previa

10.4. Abruptio placentae

11. Obstetrics 5

11.1. Delayed delivery

11.2. Medical induction of labour

11.3. Emergencies in Obstetrics

11.4. Post-partum hemorrhage

12. Gynecology 1

12.1. Cancer of the ovary

12.2. Trophoblast diseases

12.3. Endometrial cancer

12.4. Cancer of the uterine cervix

13. Gynecology 2

- 13.1. Ultrasound in gynecology
- 13.2. Benign ovarian cysts
- 13.3. Endoscopy in gynecology

14. Gynecology 3

- 14.1. Screening of pre-neoplastic lesions of the lower genital tract
- 14.2. Pre-neoplastic lesions and cancer of the vulva
- 14.3. Benign diseases of the breast
- 14.4. Cancer of the breast

Professionalizing activities

Professionalizing activities will be registered by the student on a Clinical Logbook, signed by tutors. The schedule of professionalizing activities appears in a separate document.

Teaching Method

The teaching methods will be based on: interactive lessons, discussion of clinical cases and professional training in the clinical wards and surgery areas

Assessment

Learning tests on specific parts of the program will be periodically performed throughout the course, in order to let students estimate the reached knowledge level.

The final exam will be written with the option of the oral part, and will include 10 brief multiple choice questions (2 points each) and 2 open questions (5 points each) with short answer on topics treated in the course. Optional oral exam (one question) will follow the written part. The final evaluation will be the mean of the points obtained by the 2 parts of the exam.

Five exam sessions/year will be available for students attending at least 70% of the lessons and professionalizing activities.



Texts

- 1.** Current Diagnosis and treatment: Obstetrics and Gynecology, Nathan, Laufer, Roman, DeCherney, 12th Edition, McGraw-Hill Education/Medical
- 2.** Beckmann and Ling's, Obstetrics and Gynecology, Beckmann, Ling, Herbert, Laube, Smith, Casanova, Chuang at al., 7th Edition, [Wolters Kluwer](#)
- 3.** Williams Obstetrics and Gynecology, Cunningham, Leveno, Bloom, Dashe, 25th Edition, McGraw-Hill Education/Medical
- 4.** Lippincott, Williams and Wilkins – The American College of Obstetrics and Gynecology.

All slides and videos shown during the lessons will be available for further consultation by students.