

Obstetrics and Gynaecology

Code: 102937
ECTS Credits: 8

Degree	Type	Year	Semester
2502442 Medicine	OB	4	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Antonio Gil Moreno

Prerequisites

It is recommended that the student has acquired basic competences in all the preclinical subjects.

The student will acquire the commitment to preserve the confidentiality and professional secrecy

of the data that can be accessed due to the learning of health care services. Also by maintaining an attitude of professional ethics in all its actions

Objectives and Contextualisation

This subject is offered at the 4th course of the Medicine studies when the students have already acquired the basic knowledge about the human body, as well as its structure and function.

The students are aware of the physiopathological bases of health and diseases, and some pathological aspects from medical and surgical points of view.

The main objective is acquire knowledge of the female genital tract and its physiopathological aspects, with special emphasis to the different life stages: adolescence, adulthood, menopause, and gestation.

Moreover, special emphasis on preventive medicine in pregnancy and gynecology is developed.

The specific objectives that the student has to achieve include developing skills on physical exam, and on management of the different obstetric and gynecological diseases, together with presentation and treatments.

Competences

- Convey knowledge and techniques to professionals working in other fields.

- Demonstrate understanding of the causal agents and the risk factors that determine states of health and the progression of illnesses.
- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Demonstrate understanding of the structure and function of the body systems of the normal human organism at different stages in life and in both sexes.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Organise and plan time and workload in professional activity.
- Use information and communication technologies in professional practice.

Learning Outcomes

1. Carry out an obstetric examination and monitoring.
2. Convey knowledge and techniques to professionals working in other fields.
3. Describe the processes of contraception and fertilisation.
4. Explain the anatomy of the female genital system and the neuroendocrine functions that regulate it.
5. Explain the physiology of normal pregnancy and understand the monitoring of gestation.
6. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
7. Identify a pathological postpartum and know how this is managed.
8. Identify the principle diseases specific to gestation.
9. Identify the tests that are performed during parturition.
10. Identify the tests that are performed during postpartum.
11. Identify the tests that are performed during pregnancy.
12. Organise and plan time and workload in professional activity.
13. Perform a gynaecological examination.
14. Recognise, diagnose and guide pathological parturition.
15. Recognise, diagnose and guide the management of sexually transmitted diseases.
16. Recognise, diagnose and guide the management of the principal benign gynaecological pathologies.
17. Recognise, diagnose and guide the management of the the oncological pathology that affects the female genital system.
18. Use information and communication technologies in professional practice.

Content

- 1) Physiology of pregnancy, birth and post-partum with its pathology and treatment.
- 2) Physiology, pathology and treatment of the organs of the female genital tract, including the breast.
- 3) Physiology, pathology and treatment of human reproduction.
- 4) Preventive, psychological and social aspects in gynecology and obstetrics.

Theory (50 hours, on site)

UNIT I - COMPLETE SEXUAL CICLE AND PHYSIOLOGICAL PREGNANCY

- 1- Gametogenesis. Fertility. First stages in development.
- 2- Placentation
- 3- Fetal circulation. Unit feto-placenta.
- 4- Gestational diagnosis. Physiological changes in female body.
- 5- Prenatal consultation.

- 6- Prenatal diagnosis, congenital abnormalities, prenatal tests.
- 7- Delivery causes. Beginning, uterine contractions, the labor stages.
- 8- Female pelvis. Obstetrics anatomy.
- 9- Normal labor. Delivery attendance, placental relocation, postpartum, breastfeeding.

UNIT II - PATHOLOGICAL PREGNANCY

- 10- Miscarriage. Etiology, symptoms and treatments.
- 11- Ectopic pregnancy.
- 12- Trophoblastic disease.
- 13- Multiple gestation
- 14- Hemorrhages at the end of the pregnancy. Previous placenta. Abruption placenta.
- 15- Hypertensive disorders, preeclampsia.
- 16- Preterm birth.
- 17- Premature rupture of membranes.
- 18- Intrauterine growth restriction
- 19- Isoimmunization
- 20- Post-term pregnancies. Induction of labor.
- 21- Gestational Diabetes. Thyroid diseases.
- 22- Heart diseases in pregnancy. Anemia. Digestives and urinary diseases.
- 23- Infection diseases in pregnancy. TORCH.

UNIT III- PATHOLOGICAL BIRTH AND POST-PARTUM.

- 24- Obstetrics dystocias.
- 25- Cephalical abnormal presentation. Breech Birth.
- 26- Fetal suffering, diagnosis and treatment.
- 27- Medical management of labor. Anesthesia. Fetal reanimation.
- 28- Placental pathology.
- 29- Post-partum pathology, endometritis. Mastitis.

UNIT IV- HUMAN REPRODUCTION MEDICINE

- 30- Sexual differentiation
- 31- Puberty, menarche.
- 32- Menopause.
- 33- Hypothalamus amenorrhea.
- 34- Ovarian and uterine amenorrhea.

- 35- Abnormal uterine hemorrhages.
- 36- Hirsutism and polycystic ovary syndrome.
- 37- Premenstrual syndrome. Endometriosis.
- 38- Sterility and infertility.

UNIT V- GYNECOLOGY

- 39- Vulvar diseases.
- 40- Sexual transmitted diseases.
- 41- Pelvic inflammatory disease.
- 42- Vaginal alterations. Prolapses. Urine incontinence.
- 43- Benign pathology in uterine cervix.
- 44- Invasive cervix carcinoma.
- 45- Endometrial benign pathology. Fibroids.
- 46- Endometrial cancer.
- 47- Ovarian tumors. Classification and pathology characteristics.
- 48- Ovarian tumors. Clinics, diagnosis, treatments.
- 49- Breast diseases I
- 50- Breast diseases II
- 51- Breast diseases III
- 52- Medical Oncology In breast and gynecological cancers.

Specialized seminars (20 hours)

- 1- High risk pregnancies.
- 2- Assistance protocol in normal pregnancies.
- 3- Fetal growth control. Ultrasound.
- 4- Emergency obstetric situations.
- 5- Fetal lung maturity
- 6- Prenatal diagnosis - Pregnancy interruption.
- 7- Drugs in gestation
- 8- Normal labor
- 9- Intrapartum fetalmonitorization.
- 10- Cesarian intervention.
- 11- History of the Ginecology. Important historical syndromes.

- 12- Menstrual alterations.
- 13- Fast diagnosis in breast and genital cancer.
- 14- Vaginal fluid alteration.
- 15- Gynecological surgery. Histerectomy. Annexectomy.
- 16- Minimal invasive surgery in gynecology.
- 17- Clinic cases in breast diseases.
- 1- Sterility. Protocol of diagnosis and treatment.
- 2- Gynecological Urology.
- 3- Familiar planning.

Practice (20 hours)

The practical part of the subject will be in the Delivery Room (2 times with the "On duty team"), in the outpatient clinic, and in the hospitalization and surgical area.

Skills must be acquired for the following techniques and exams during the practical sessions:

- Medical history
- Obstetric exam
- Leopold exam
- Fetal auscultation
- Vaginal exam
- Cervical dilatation and pelvic exam

Methodology

This Course Guide details the context, the contents, the methods and norms of the subject according to the current study plan. Final organization of the subject with different groups,

calendar and exam dates and evaluation criteria will be decided in each Teaching Unit of each Hospital, and will be specified in their web pages and in the first day of the subject lesson.

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
CARE PRACTICUM WITHOUT GUIDELINES	20	0.8	
Specialized seminars (SEM)	20	0.8	

THEORY (TE)	50	2	
Type: Autonomous			
READING ARTICLES /REPORTS OF INTEREST	10	0.4	
SELF-STUDY	70	2.8	3, 2, 4, 5, 13, 1, 6, 7, 11, 9, 10, 8, 12, 17, 15, 16, 14, 18
works delivery	20	0.8	

Assessment

Evaluable activities are as follows:

- Theory: 2 exams "test-type" during the subject lessons and final examination (test and short questions)

* 60% of the global result of the evaluation

- Practical part:

. Seminars (20%): Test questions and cases presentation

. Works (10%): Evaluation of quality and oral presentation

. Practice (10%): Attendance is mandatory

* 40% of the global result of the evaluation

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in class and in seminars	40%	5	0.2	3, 2, 4, 5, 13, 1, 6, 7, 11, 9, 10, 8, 12, 17, 15, 16, 14, 18
Objective tests: Multiple choice test	60%	5	0.2	3, 2, 4, 5, 13, 1, 6, 7, 11, 9, 10, 8, 12, 17, 15, 16, 14, 18

Bibliography

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- 18 - FUNDAMENTOS DE GINECOLOGIA J.M. Bajo Arenas, J.M. Laila Vicens, J. Xercavins Montosa. Editorial SEGO Madrid 2009
- 19 - Virus del Papiloma Humano y Cáncer de Cuello de Útero. Carreras - Xercavins - Checa

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Recursos de Internet

- www.sego.es

- www.glowm.com/