

68423 - Research in gynecology and human reproduction

Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	530 - Master's in Introduction to Medical Research
ECTS	5.0
Course	1
Period	Indeterminate
Subject Type	Optional
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

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Use of knowledge for critical analysis and development of research models applied in clinical practice and care for women

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throughout their reproductive life and the mother and foetus during pregnancy.

5.2.Learning activities

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The program offered to help the student to achieve the expected results includes the following activities.

Master classes:

Each module integrates the program content of the subject within the subject will be presented, analysed and discussed by the teacher with students for 55 minutes with the following scheme of work:

- * Presentation of current knowledge on the subject (15 minutes)
- * Presentation of a scientific article, guideline or protocol (10 minutes)
- * Group discussion (20 minutes)
- * Conclusions (10 minutes)

Clinical cases:

Clinical cases consistent with the skills, capabilities and content that are being developed in the classes will be elected. In its selection the following facts were taken into consideration:

- * Define the desired objectives.
- * Select the type of case that best fits the theme to be addressed.
- * Choose the specific problem and gather information about the clinical case that students will analyze and is consistent with the intended objectives.

Tutored work

Each student must write a work tutored by one of the teachers of the subject. The extension should be around 4-6 pages, in PDF format and submit it to the Secretary of the Department of Surgery, Gynecology and Obstetrics. The work will be

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based on a scientific article related to the health of women during pregnancy and childbirth, or its reproductive life. It should include a critical analysis of the following points:

- * Reference article.
- * Aim of the study.
- * Identification of the type of study.
- * Analysis of the results
- * Final critical analysis.
- * Implications for clinical practice

5.3.Program

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1. Topics:

1. Assessment of foetal growth. Prenatal foetal therapy: Prof^a. Hiraldo Perez - Prof. González de Agüero.

Subjects:

- Concept of foetal well-being. Foetal viability. perinatal risk. Analysis of perinatal morbidity and mortality.
- Foetal Ecology. Factors and mechanisms of aggression to the human maternal-foetal ecosystem.
- The environment as a factor of aggression.
- Concept of birth defect. Prevalence and incidence.
- Concept of population screening. Types of screening in prenatal diagnosis.
- Explorations to perform within the prenatal diagnosis. Valuation usefulness and implications of their results.
- Evaluation of intrauterine fetal state.
- prenatal therapy: utero gene therapy and stem cell transplantation.
- Legal implications in the context of prenatal diagnosis of congenital defects.

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2. Foetal programming and evidence-based medicine: Prof. Orós Lopez.

- Epigenetics.
- Bases of foetal programming of adult disease.
- Foetal pathology and impact on adult life: preeclampsia, IUGR and prematurity.
- Principles of evidence in obstetrics and gynaecology.
- Acquisition of information. Primary and secondary information sources. Information resources available in our environment.
- Internet maternal fetal medicine. Addresses, information portals applications for mobile and tablet devices.
- Evaluation of information. structured analysis of the evidence.
- Editing academic texts in obstetrics and gynaecology. Structure of a scientific text. Managers references.

3. Clinical Evidence in attendance and maternal-foetal pathology: Prof. Castán Mateo.

4. Psychosomatic gynaecology, sexual and reproductive health and immigration: Female Genital Mutilation: Prof. Tajada Duaso - Prof^a. Carazo Hernandez.

- Disseminate cultural, ethical, psychosocial and psychosomatic in Obstetrics and Gynaecology.
- Promote education and psychosomatic training
- Psychosomatic gynaecology in maternal-foetal medicine
- Psychosomatic gynaecology in oncology
- Psychosomatic gynaecology in sterility
- Female Genital Mutilation

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5. Advances in contraception: Prof. González Navarro.

- Knowledge of new contraceptive methods, especially hormonal contraception.
- Update and updated in the management of hormonal contraception.

6. Sterility and assisted Reproduction: Prof. Diaz Vega.

- Current management of infertility
- Thrombophilia in sterility and infertility
- Genetic factors in sterility.
- Morphological assessment of oocytes and embryos
- Oocyte Insemination
- Morphological criteria of embryo selection

7. Gynaecologic Laparoscopy: Prof. Romero Cardiel.

- Training in laparoscopic surgery.
- Indications and contraindications of laparoscopic surgery. Advantages and disadvantages in relation to open surgery.
- Surgical material. Surgical techniques.
- Robotic laparoscopic surgery.

8. Pathology of implantation and embryo development: Prof^a. Sobreviela Laserrada - Prof^a. Jimenez Martinez.

- Normal uterine and endometrial anatomy.
- Factors involved in the foetal development.
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Concept of population screening.

- Procedures and scans during pregnancy.
- Current status of endometrium-implantation failure relationship. Diagnostic challenges.

9. Gynaecologic endocrinology: Prof. Pérez López

- Hormonal treatment of genital and breast benign pathology
- Hormonal factors in placental and gonadal aging

10. Cervical pathology and advances in gynaecologic oncology: Prof^a. Morollón Loriz.

Cervical pathology : epidemiology, etiological factors, types of cervical lesions, diagnosis, and treatment.

- Advances in gynecologic oncology (endometrium, cervix), ovary and vulva): Epidemiology, etiological factors, types of cervical lesions, diagnosis and treatment.
- molecular biology of cancer: carcinogenesis, metastatic processes
- Stem cells
- Target new therapies

2. The final work tutored may be submitted to the Secretary of the Department of Surgery, Gynecology and Obstetrics.

5.4.Planning and scheduling

5.3. Scheduled agenda

1. Master classes will take place on Thursdays from January 12 to March 3, 2016

*January 12: 1. Assessment of foetal growth. Prenatal foetal therapy: Prof^a. Hiraldo Perez - Prof. González de Agüero. 2. Fetal Programming and evidence-based medicine: Prof. Orós Lopez.

* January 19: 3. Clinical Evidence in attendance and maternal-foetal pathology: Prof. Castán Mateo.

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* January 26: 4. Psychosomatic gynaecology, sexual and reproductive health and immigration: Female Genital Mutilation: Prof. Tajada Duaso - Prof^a. Carazo Hernandez.

* February 2: 5. Advances in contraception: Prof. González Navarro.

* February 9: 6. Sterility and Assisted Reproduction: Prof. Diaz Vega.

* February 16 : 7. Gynaecologic laparoscopy: Prof. Romero Cardiel. 8. Pathology of implantation and embryo development: Prof^a. Sobreviela Laserrada - Prof^a. Jimenez Martinez.

* February 23: 9. Gynaecologic endocrinology: Prof. Pérez López.

* March 2: 10. Cervical Pathology and advances in gynecologic oncology: Prof^a. Morollón Loriz.

2. The final work tutored may be submitted to the Secretary of the Department of Surgery, Gynecology and Obstetrics before the 31 of May 2017

5.5.Bibliography and recommended resources

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| BB | [Obstetricia y Ginecología] - Fritz, Marc A..
Endocrinología ginecológica clínica y esterilidad / Marc A. Fritz, Leon Speroff .
Edición española de la 8ª ed. de la obra original en lengua inglesa Barcelona :
Wolters Kluwer/Lippincott Williams & Wilkins, cop. 2011 |
| BB | [Obstetricia y Ginecología] - González Merlo, Jesús. Ginecología / J. González-Merlo, J. González Bosquet, E. González Bosquet . 9ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier Masson , 2014 |
| BB | [Obstetricia y Ginecología] - Obstetricia [6ª ed.] / J. González-Merlo ... [et al.] . 6ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier Masson , 2013 |

