



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Obstetrics and Gynecology I

2425-6-H4102D039-H4102D171M

Aims

The primary aim of this course is to allow medical students to acquire general notions of gynaecology and pathology in order to identify diseases, and to differentiate basic from severe ones, that is those that could require a specialistic intervention.

Contents

Anatomy of female genital tract, physiological changes of female genital tract in puberal period, physiological changes of female genital tract during fertility period, physiology of human reproduction, menopause and advanced age. Gynecological diagnostics. Etiopathogenesis, differential diagnosis and treatment of diseases during the fertility period, inflammatory pelvic disease, sexual transmitted diseases, malignant and benign neoplasia of female genital tract, gestational throphoblastic disease/neoplasia. Menopause and climacteric syndrome. Hormonal replacement therapy in menopause. Diagnostic procedures in infertile couples. Genital prolapse and urinary incontinence. Genetic predisposition to gynecological pathologies.

Detailed program

Based on the knowledge learned during the course and in the internship, the future doctor will acquire the skills to deal with issues related to the life of women. This field is vast and important for medicine because it includes both the physiological changes that occur during the cycle of reproduction and the specific pathologies of fertility, pregnancy-delivery and the pathological conditions affecting the female genital apparatus. Through the anamnesis including the social conditions and the possible specific risk factors, the symptoms, the physical examination and some selected exams instrumental, the student must know how to identify a biologic-clinical scenario in which to differentiate modifications in the field of physiology rather than conditions of pathology both for the obstetric and

gynecological components of the discipline. In order to achieve these objectives is indispensable to have basic preliminary knowledge (anatomy, physiology and general pathology of the female genital apparatus outside pregnancy and during pregnancy including fetal development), plus the acquisition of adequate skills (anamnesis, semeiotic and objective examination) and differential diagnosis knowledge of the main obstetric and gynecological pathologies, complementary instrumental examinations, diagnosis and therapy of common conditions and emergencies). In detail, the program is divided into the following points:

ANATOMY AND PHYSIOLOGY OF THE GENITAL TRACT

Notions and clinical declination of:

- Descriptive anatomy of the female genital system
- Topographic anatomy of the pelvis
- Elements of embryology and organogenesis aimed at understanding the malformations of the genital apparatus
- Physiology of the female genital apparatus with particular emphasis on:
 - Maturation of the genital apparatus in puberty
 - Cyclical changes in the fertile age: hypothalamic-hypophysis-gonadal axes and target organs with the peculiar anatomical and functional modifications
 - Cessation of ovarian and uterine activity: climacteric and senile age
- Vaginal microclimate and its modifications in the various ages of women
- Physiology of reproduction
- Purpose of diagnostic imaging, laboratory and endoscopy in couple sterility.

DIAGNOSTICS IN GYNECOLOGY

Indication, principles and techniques of:

- Gynecologic ultrasound, hysterosonography
- Colposcopy
- Hysteroscopy

GINECOLOGICAL PATHOLOGY

Elements of etiopathogenesis, diagnosis, differential diagnosis, general principles of therapy and gynecological emergencies derived from:

- Menstrual cycle disorders
- Amenorrhea and menometrorrhagia
- Pelvic inflammatory disease and sexually transmitted diseases
- Pelvic masses. differential diagnosis and diagnostic imaging
- Benign neoplasms of the ovary
- Genital endometriosis
- Benign neoplasms of the uterus: endometial polyps and hyperplasia
- Uterine myomas
- Malignant neoplasms of the female genital system:
 - Ovarian cancer
 - Endometrial cancer
 - Cervical cancer
 - Vulvar cancer
 - Sarcomas of the genital system
- Post-gestational trophoblastic disease: vesicular mole, coriocarcinoma, placental site tumor
- Genetic mutations associated with an increased risk of developing gynecological malignancies
 - *BRCA* mutations
 - Lynch syndrome
 - Other rare mutations

PRINCIPLES OF GYNECOLOGIC SURGERY

Indications, principles and techniques of:

- Laparotomy in gynecology
- Laparoscopy in gynecology
- Robotic surgery in gynecology

- Vaginal surgery
- Operative Hysteroscopy

THEMES OF PECULIAR SOCIAL AND HEALTH INTEREST

- Methods for birth regulation and contraceptive techniques: indications and contraindications. Role of the activities of the counseling in response to women's needs
- Couple infertility: diagnosis, etiopathogenesis, therapeutic possibilities and assisted procreation techniques

Prerequisites

Knowledge of the introductory courses indicated in the syllabus of the degree course

Teaching form

Lectures, Internship, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

1. Manuale di Ginecologia ed Ostetricia - EdiSES Giorgio Bolis Edizione II / 2017 ISBN: 9788879599269
2. Core Curriculum - Ostetricia e Ginecologia Ferrari - Frigerio. Editore:

Mcgraw-hill. Edizione: 2013 ISBN: 9788838639708

3. Compendio di Ostetricia e Ginecologia - Nappi - Tommaselli

Editore: IDELSON-GNOCCHI Edizione: 2015 ISBN: 9788879475952

4. Essential Obstetrics Gynaecology - Fifth Edition Edited by Ian Symonds & Sabaratnam Arulkumaran/ 2013 ISBN:9780702030680
5. Obstetrics & Gynaecology Hannah Kither, Sarah Kitson, Louise Wan, Emma Crosbie. Edited by EUREKA 2017 ISBN: 9781907816987
6. Manuale di Sala Parto- Valle A, Bottino S, Meregalli V, Zanini A, Lissoni D, Locatelli A. Edi Ermes 2019 ISBN 9788870516753

Semester

Sixth year, first semester

Assessment method

Single answer quiz with 5 answers, of which only one is correct, conditioning access to the Oral test, Oral exam

Oral test will be an interview discussing written test and course subjects

Office hours

Only by appointment, please contact via mail robert.fruscio@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
