



UNICAMILLUS

## DEGREE IN MIDWIFERY

**Integrated Teaching: INTERNAL MEDICINE, SURGERY, PRENATAL MEDICINE, CHILDBIRTH CARE**

SSD: MED/13, MED/18, MED/06, MED40

Credits: 6

Responsible Professor: Salvatore Corsello

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MODULE: Endocrinology

SSD: MED/13

Number of Credits: 1

Professor: Salvatore Corsello

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MODULE: General Surgery

SSD: MED/18

Number of Credits: 1

Professor: Massimo Villa

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MODULE: Specialistic Medicine

SSD: MED/06

Number of Credits: 1

Professor: Gaetano Lanzetta

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MODULE: Gynaecology and Obstetrics

SSD: MED/40

Number of Credits: 3

Professors:

Mario Montanino Oliva

CFU: 1

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### PREREQUISITES

In order to follow the course profitably it is expected that students have preliminary knowledge of the basic principles of anatomy, physiology, general pathology and the physiological changes during pregnancy,



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## **LEARNING OBJECTIVES**

At the end of the course the student will be able to describe the main complications related to the different phases of a woman's life, pregnancy, and birth.

Further objective of the course is the identification of the main pathologies of interest to oncologic medicine, as well as a knowledge of the risk factors, clinical presentation, diagnostic approaches and, lastly, patient management.

Other objectives of the course are to provide the student with the knowledge of the main mechanisms of physiology and pathology of human reproduction. The student will learn the physiological reproductive process, understanding the basic biological concepts of human reproduction and alterations of the reproductive mechanisms that can cause infertility in the couple. He will know the main benign gynaecological pathologies and endocrinological disorders of the ovarian cycle that can cause infertility.

Finally, this course aims at providing the student with the sufficient knowledge of the clinical and diagnostic problems inherent in the affections of surgical relevance in the pediatric field.

## **LEARNING OUTCOMES**

The specific learning outcomes of the program are coherent with the general provisions of the Bologna Process and the specific provisions of EC Directive 2005/36/EC. They lie within the European Qualifications Framework (Dublin Descriptors) as follows.

At the end of this teaching, students will be able to:

### Knowledge and Understanding

- Describe the pathophysiological bases of the main diseases of the endocrine system and metabolism, with particular reference to gender differences, the physiology of the endocrine system and the endocrine diseases during pregnancy
- Describe the basics of oncology, be familiar with the history of cancer and symptoms and toxicity treatment related
- Describe the main congenital malformations of surgical interest (esophageal atresia, urinary tract malformations, intestinal atresia, malformations anorectal, congenital diaphragmatic hernia and wall defects).
- Describe the causes of the main clinical pictures that involve intestinal obstruction in the infant and infancy
- Describe the gynaecological pathologies cause of infertility
- Describe the instrumental and laboratory diagnosis of the infertile couple
- Explain therapeutic strategies in the infertile couples
- List the different techniques of ART
- Describe the modifications and changes of organs and organic system that take place during pregnancy
- Describe the utility of TORCH tests
- Describe the causes, the symptoms as well as the clinical evolution of post partum complications
- Describe the diagnostic workup for the abnormal implants of placenta



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- Explain the causes, the symptoms as well as the clinical evolution of sepsis
- Describe the classification, management and treatment of III and IV degree of perineal injuries
- Describe the causes, the symptoms as well as the clinical evolution of puerperal complications
- Describe the role of prenatal diagnosis in terms of both prenatal counseling and fetal sampling
- Collaborate in the preparation of the material taken for prenatal diagnosis investigations
- Describe prenatal screening methods for chromosomal pathologies risk
- Explain the methods to diagnose intrauterine growth retardation
- Describe the physiopathological and clinical characteristics of the III trimester hemorrhages
- Evaluate fetal well-being in terms of laboratory tests rather than instrumental techniques
- Manage obstetric care needs that require preventive and curative skills in specific ultra-specialist sectors such as infectious diseases and trophoblast malignancy

## Applying Knowledge and Understanding

- apply the principles of midwifery to selected cases, problems, and a variable range of situations
- use the tools, methodologies language and conventions of midwifery to test and communicate ideas and explanations

## Communication Skills

- present the topics orally in an organized and consistent manner
- use a proper scientific language coherent with the topic of discussion

## Making Judgements

- recognize the importance of an in-depth knowledge of the topics consistent with a proper education
- identify the importance of a proper theoretical knowledge of the topic in the clinical practice

## **COURSE SYLLABUS**

### ENDOCRINOLOGY

General principles of endocrinology

Anatomy and physiology of the endocrine system

Regulation of hormone secretion and negative feedback

Pituitary disorders (pituitary adenomas, hyperprolactinemia, pathologies of GH secretion, hints of pathologies of pubertal development, hypopituitarism, hypogonadism, postpartum pituitary apoplexy, diabetes insipidus)

Thyroid disorders (thyroiditis, hypothyroidism, hyperthyroidism and thyrotoxicosis, thyroid nodules, thyroid tumors)

Adrenal disorders (Cushing's syndrome, Addison's disease, endocrine hypertension)

Disorders of calcium-phosphoric metabolism and osteoporosis

Hyperandrogenisms and polycystic ovary syndrome

Diabetes Mellitus: classification, pathogenesis, clinical manifestations and hints of therapy

Obesity and metabolic syndrome



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## MEDICINE

Carcinogenesis pathophysiology  
Epidemiology, Etiology, diagnosis, and staging of gynecological cancer  
Papillomavirus  
Cancer prevention and Pap-Test  
Ovarian cancer  
Breast cancer  
Endometrial cancer  
Cervix cancer  
BRCA1 and BRCA2 and genetic counselling

## SURGERY

Congenital malformations (head, neck, thorax, abdomen, genital and urinary tract); malformations and obstructions of the upper airways; esophageal atresia; bowel obstruction baby girl; newborn abdominal masses; acute scrotum.

## GYNECOLOGY

Anatomy of the female and male reproductive system  
Human reproductive physiology: The menstrual cycle, the hormones of the hypothalamus-pituitary axis, ovarian steroid-genesis. Spermatogenesis. Epidemiology of infertility  
Endocrine disorders in infertile woman: primary and secondary amenorrhea, polycystic ovarian syndrome. Pituitary and ovarian hormone profile  
Gynecological causes of female infertility, endometriosis, classification of congenital uterine malformations. Genetic causes of male and female infertility  
Instrumental diagnosis: ultrasound, monitoring of ovulation, hysterosalpingography, hysteroscopy and laparoscopy  
Therapeutic approaches in infertile couple. Use of food supplements and hormones. The different assisted reproduction techniques both homologous and heterologous  
Italian legislation on ART

Physiological modification during pregnancy  
Laboratory tests and TORCH test  
Complications of post-partum and puerperium  
Post partum haemorrhage  
Perineal injuries  
Uterus rupture  
Manual removal of placenta  
Sepsis and shock

Prenatal diagnosis: prenatal counselling, non-invasive methods and invasive methods.  
Screening tests, meaning and role  
Foetal sampling techniques  
Foetal welfare assessment: Plasma and urinary indicators; Ultrasound in different times of



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pregnancy; The behavioural and biophysical profile; Antepartum cardiotocography  
Infections during pregnancy  
Intrauterine growth retardation  
Third trimester bleeding  
Foetal erythroblastosis  
The pathology of the trophoblast: benign and malignant  
The gynaecological and obstetric emergency room

## COURSE STRUCTURE

The course consists of 84 hours of classroom teaching, composed of frontal lessons and interactive learning activities, especially using presentations of clinical cases.

## COURSE GRADE DETERMINATION

The final exam will be oral and it will be communicated at the beginning of the lessons together the didactic materials necessary to the preparation for the final evaluation.

The oral exam will focus on the program and will assess the student's knowledge and mastery of specific scientific language.

The evaluation criteria considered will be: acquired knowledge, independent judgment, communication skills and learning skills. The exams will be assessed according to the following criteria:

<b>&lt; 18 Fail</b>	The candidate possesses an inadequate knowledge of the topic, makes significant errors in applying theoretical concepts, and shows weak presentation skills.
<b>18-20</b>	The candidate possesses a barely adequate and only superficial knowledge of topic, limited presentation skills, and only an inconsistent ability to apply theoretical concepts.
<b>21-23:</b>	The candidate possesses an adequate, but not in-depth, knowledge of the topic, a partial ability to apply theoretical concepts, and acceptable presentation skills.
<b>24-26</b>	The candidate possesses a fair knowledge of the topic, a reasonable ability to apply theoretical concepts correctly and present ideas clearly.
<b>27-29</b>	The candidate possesses an in-depth knowledge of the topic, a sound ability to apply theoretical concepts, good analytical skills, clear argumentative clarity and an ability to synthesize.
<b>30-30L</b>	The candidate possesses an in-depth knowledge of the topic, an outstanding ability to apply theoretical concepts, a high level of argumentative clarity, as well as excellent analytical skills, and a well-developed ability to synthesize and establish interdisciplinary connections.



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## **OPTIONAL ACTIVITIES**

Students can request optional workshops to deepen some specific topics.

## **READING MATERIALS**

### ENDOCRINOLOGY

-Endocrinologia - Per i corsi di Laurea delle professioni sanitarie di Monaco - Santarelli, Società Editrice Universo, 2013

-Manuale di Endocrinologia, Francesco Lombardo - Andrea Lenzi, Edises, 2018

### MEDICINE

-MEDICINA ONCOLOGICA Gianni Bonadonna, Gioacchino Robustelli Della Cuna, Pinuccia Valagussa

### SURGERY

-Elementi di Chirurgia Pediatrica, Ferdinando Cataliotti, edito dalla Piccin

### GINECOLOGY

-G. Bolis: Manuale di Ginecologia e Ostetricia – II Edizione 2017 – EdiSES, Napoli

-Pescetto, De Cecco, Pecorari, Ragni. Ginecologia e Ostetricia. SEU. 2017

### OTHER MODULES

Didactic and integrative material provided by the lecturer.