

## DEGREE IN MIDWIFERY

### Integrated Teaching: MATERNAL CHILDCARE OBSTETRICS

SSD: MEDS-24/C, MEDS-01/A, MEDS-21/A, MEDS-20/A, PSIC-04/B

Responsible Professor: [Veronica Ricciuto](#)

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Credits: 9

MODULES: Obstetrical-gynaecological nursing sciences

SSD: MEDS-24/C

Professor: [Veronica Ricciuto](#)

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Number of Credits: 2

MODULE: Medical Genetics

SSD: MEDS-01/A

Professor: [Cinzia Ciccacci](#)

E-mail: [cinzia.ciccacci@unicamillus.org](mailto:cinzia.ciccacci@unicamillus.org)

Number of Credits: 1

MODULO: Gynaecology and Obstetrics

SSD: MEDS-21/A

Professor: [Fabrizio Cerusico](#)

E-mail: [fabrizio.cerusico@unicamillus.org](mailto:fabrizio.cerusico@unicamillus.org)

Number of Credits: 2

MODULO: General and Specialised Paediatrics

SSD: MEDS-20/A

Professor: [Paola Rosati](#) (1 CFU)

E-mail: [paola.rosati@unicamillus.org](mailto:paola.rosati@unicamillus.org)

Professor: [Anna Claudia Romeo](#) (1 CFU)

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Number of Credits: 2

MODULO: Clinical Psychology

SSD: PSIC-04/B (ex M-PSI/08)

Professor: [Guyonne Rogier](#)

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Number of Credits: 2

### PREREQUISITES

The pre-requisites for the students are knowledge of: anatomy and physiology of the female reproductive system; physiological changes during pregnancy.

### LEARNING OBJECTIVES

At the end of this course, students will be able to describe, with a Psycho-Neuro-Endocrine-Immunological (PNEI) approach, the main changes during pregnancy and postpartum period of woman and partner. Students will be able to define the main indicators of maternal difficulties and the role of the midwife in providing Voluntary Interruption of Pregnancy and Anonymous Birth related care services. In addition, they must understand the concepts of Minority Stress and Homoparentality. Students will be able to describe the main affections of neonatal age, and childhood, explaining their prevention, diagnosis, and treatment. Moreover, the students will be able to describe the main

concepts on the inheritance of genetic diseases and basic elements of prenatal and postnatal diagnosis. By the end of this course learners will be able to describe the scope of perioperative and gynaecological practice and the prevention, diagnosis, and treatment of the main pelvic floor dysfunction. Finally, students will achieve ability to use cognitive and intervention tools aimed at prevention, diagnosis and rehabilitation and psychological support activities and they will acquire advanced level skills to establish relevant characteristics of people, families, and groups.

## 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 changes during pregnancy and postpartum with a Psycho-Neuro-Endocrine-Immunological (PNEI) approach
- explain the main indicators of maternal difficulties
- define the role of midwife in providing Voluntary Interruption of Pregnancy and Anonymous Birth related care services
- define the concept of Minority Stress and Homoparentality
- describe the characteristics of the anatomy and function of pelvic floor
- describe the methods for the prevention, diagnosis, and treatment of the main pelvic floor dysfunction.
- describe benign and malignant pathology in gynaecology
- describe pathological cases in pregnancy (ectopic pregnancy and gestational tumors)
- explain the main inheritance models of non mendelian disorders: mitochondrial diseases, multifactorial diseases
- describe the main biological mechanisms that cause hereditary diseases
- describe genetic counselling, prenatal and postnatal testing
- explain the major kinds of genetic testing and their proper use
- describe the importance of infections in pregnancy and in the pre and perinatal period
- explain the methods of prevention, diagnosis, and possible treatment regarding the main infections during pregnancy
- describe information on bacterial, viral, and fungal infections
- describe information on vaccinations during pregnancy
- describe all problems related to neonatal age and childhood from a preventive and diagnostic point of view, specifically aimed at an early diagnosis of neonatal and paediatric sepsis
- describe paediatric vaccinations and the main paediatric pathologies
- explain the physiologic paediatric development and auxologic measures
- define the rights of the children in hospital
- understand and describe the main relational and emotional dynamics during pregnancy and puerperium
- know and understand the psychological processes underlying the development of early relationships
- identify and evaluate risk factors and protective factors of parenting during puerperium
- know and describe the main psychopathological conditions related to pregnancy

- know the main counseling and communication techniques
- explain the psychological implications of traumatic events and risk conditions during pregnancy

### **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.

### **Learning Skills**

The student will be able to activate autonomous paths of in-depth study through the consultation of scientific literature and the reading of obstetrics and gynaecological texts.

## **COURSE SYLLABUS**

### **MIDWIFERY**

- Introduction to Gender Studies from an Intersectional Perspective: components of sexual identity, gender medicine, Minority Stress, midwifery care for TGD (Transgender and Gender Diverse) individuals AFAB (Assigned Female At Birth), and midwifery care for LGBTQIA+ individuals and families within the Italian context.
- Psycho-Neuro-Endocrine-Immunology (PNEI): stress and allostatic load; midwifery care from a PNEI perspective; pregnancy in the light of PNEI principles; PNEI aspects of paternal physiological and psychological changes during pregnancy and the postpartum period.
- Challenging Motherhood from a Psycho-Social Perspective: voluntary termination of pregnancy (VTP), anonymous childbirth, spontaneous miscarriage following ART (Assisted Reproductive Technologies), and new pregnancy after perinatal loss (Rainbow Babies). The role of family counseling centers, the third sector (non-profit and voluntary organizations), and the midwife.
- The Pelvic Floor (PF) in AFAB Individuals: anatomy and function; relationship between the pelvic and respiratory diaphragms; dysfunctions (urinary and anal incontinence, constipation, pelvic organ prolapse, muscular perineal dysfunction, chronic pelvic pain and associated conditions, sexual dysfunctions).
- Pelvic Floor Assessment: use of voiding and bowel movement diaries.
- Prevention and Treatment of Pelvic Floor Dysfunctions during pregnancy, childbirth, the postpartum period, and menopause.
- The Pelvic Floor Rehabilitation Specialist Midwife: education, competencies, and professional responsibilities.
- Pelvic Floor Rehabilitation and Midwifery Care from a PNEI Perspective.

### GENETICS

- Introduction to the course: review of basic terminology. Review classification of genetic disorders: Mendelian inheritance, chromosomal pathology, diseases mitochondrial and complex diseases
- Gene frequencies and diseases: Hardy-Weinberg equilibrium
- Genetic testing
- Genetics and prenatal diagnosis. Genetic Counselling
- Pharmacogenomics and Personalized Medicine
- Examples of diagnosis of genetic diseases: cystic fibrosis, tandem repeat disorders, breast cancer and BRCA1 / BRCA2 mutations, genetic imprinting diseases
- Genetics of sex determination
- Genetics of infertility
- Epigenetics and reproduction.

### GYNECOLOGY

Benign and malignant pathology in gynaecology:

- Non-neoplastic and neoplastic vulvo-vaginal pathology
- The uterine cervix: benign pathology, non-neoplastic changes
- The uterine cervix: pre-neoplastic pathology and malignant neoplastic pathology
- The endometrium: dysfunctional and non-neoplastic pathology of the endometrium
- The endometrium: proliferative pathology. Endometrial hyperplasia and endometrial carcinoma
- The ovary: neoplastic and non-neoplastic pathology
- Lifestyle and fertility today
- Pathological conditions in pregnancy: ectopic pregnancy and gestational tumors
- Caesarean section: indications and surgical technique

### PEDIATRICS

#### NEONATAL SECTION

- Organization of maternal-neonatal care
- Mother-newborn transport
- Medical records and maternal-neonatal history
- Maternal infections and consequences on the newborn
- Voluptuous substances and drugs and consequences on the fetus/newborn
- Care of the newborn in the delivery room
- Post-natal adaptation and SUPC
- Neonatal characteristics and transient neonatal phenomena
- Neonatal jaundice
- Neonatal prophylaxis
- Neonatal screening
- The pathological newborn (IUGR/SGA, child of diabetic mother, premature)
- Neonatal hypoglycemia
- Complementary feeding and normal growth of the newborn
- Recommendations for neonatal hypothermia, cord blood gases
- Pain management in the newborn
- Neuromuscular pathologies and heart disease in pediatric age

## PAEDIATRIC SECTION

- Developmental stages and screening in pediatric age
- Lower and upper respiratory tract infections in pediatric age
- Food and respiratory allergies
- Anaemia in pediatric age
- Main exanthematous diseases in pediatric age
- Fever and febrile convulsions
- Meningitis in pediatric age
- Lumbar puncture
- Nutrition in pediatric age
- Main gastroenterological pathologies in pediatric age
- Abnormalities in height-weight growth and puberty
- Main endocrinological pathologies in pediatric age
- Urinary tract infections
- Joint pathology in pediatric age
- Psychosocial problems in adolescence
- Vaccinations and other preventive interventions in pediatric age
- Neuropsychiatric pathologies in pediatric age: autism, ADHD, epilepsy, headache and sleep disorders
- Pediatric first aid techniques
- Charter of the rights of the child in hospital

## CLINICAL PSYCHOLOGY

- Psychological and emotional dynamics during pregnancy and puerperium
- The modification of the body scheme, the inevitable transformations and its acceptance, deconstruction, and redefinition of identity in the pregnant woman
- The redefinition of the mother's role within the family and the changes within the couple
- Intrapsychic narration of the child during gestation and during the months following birth
- Psychological changes in the couple during the second trimester of gestation: the transition from a conjugal couple to a parental couple
- Intrauterine communication as a fundamental stage for the creation of the mother/child and father/child relationship
- The transition from the prenatal symbiotic union to birth: fears and comparison between the "imaginary" child and the "real" child
- Baby blues and postpartum depression: assessment of risk factors in pregnant women
- The well-being's evaluation of the mother during the puerperium and the evaluation of the quality of care to the baby: facilitation of breastfeeding, the establishment of the relationship with the newborn, the involvement of the father
- Bereavement in pregnancy: IVG, prenatal and perinatal mourning

## **COURSE STRUCTURE**

The course consists of 126 hours of classroom teaching, composed of frontal lessons, working groups and interactive learning activities.

## **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.

### OPTIONAL ACTIVITIES

Students can request optional workshops to deepen some specific topics.

### READING MATERIALS

#### MIDWIFERY

- Trattando di scienza ed arte della professionalità ostetrica. Dall'arte alla scienza. Walter Costantini Piccin-Nuova Libreria 2021
- Il parto anonimo. Profili giuridici e psico-sociali dopo la pronuncia di incostituzionalità – A. Arecchia, E. Rosati, S. Stefanelli - Artetetra Edizioni
- Aborto ieri e oggi: l'applicazione della 194 tra obiezioni di coscienza e diritto alla salute delle donne. – G. M. Cardile, M.A. Cocchiara - Aracne editrice int.le S.r.l.
- L'assistenza ostetrica in ottica PNEI – V. Ricciuto- PNEI REVIEW– FrancoAngeli

#### MEDICAL GENETICS

- Thompson e Thompson. Genetica in Medicina, R. L. Nussbaum, R. R. McInness, H. F. Williard

#### PEDIATRICS

- Trattando di scienza ed arte della professionalità ostetrica. Dall'arte alla scienza. Walter Costantini Piccin-Nuova Libreria 2021
- Elementi Essenziali di Pediatria per i corsi di laurea triennali - G.V. Zuccotti – Edizioni Esculapio
- Fisiologia della nascita. R. Spandrio, A. Regalia, G. Bestetti. Carocci Faber editore
- Klaus - Fanaroff' s. Cure del Neonato ad Alto Rischio. Editore Delfino 2020

#### CLINICAL PSYCHOLOGY

- Stern D. e Bruschweiler-Stern A. Nascita di una madre. Oscar Mondadori, 2017
- Quatraro R.M., Grussu P., Cox J. Psicologia clinica perinatale. Dalla teoria alla pratica, Casa Editrice Erickson, 2018

OTHER MODULES

-Didactic material (lessons in pdf, papers, etc.) delivered by the Professors