



DEGREE IN MIDWIFERY

Integrated Teaching: MATERNAL CHILDCARE OBSTETRICS

SSD: MED/03, MED/38, MED40, MED/47, M-PSI/08

Credits: 9

Responsible Professor: Veronica Ricciuto

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MODULES: Obstetrical-gynaecological nursing sciences

SSD: MED/47

Number of Credits: 2

Professor: Veronica Ricciuto

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MODULE: Medical Genetics

SSD: MED/03

Number of Credits: 1

Professor: Cinzia Ciccacci

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MODULO: Gynaecology and Obstetrics

SSD: MED/40

Number of Credits: 2

Professor: Barbara Costantini

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MODULO: General and Specialised Paediatrics

SSD: MED/38

Number of Credits: 2

Professor: Arianna De Martino

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MODULO: Clinical Psychology

SSD: M-PSI/03

Number of Credits: 2

Professor: Donatella Marazziti

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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

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

MIDWIFERY

The study of main changes during pregnancy and postpartum period with Psycho-Neuro-Endocrine-Immunological (PNEI) approach

Maternal difficulties: the role of the midwife in providing Voluntary Interruption of Pregnancy and Anonymous Birth related care services

Minority Stress and Homoparentality

Anatomy and function of the female pelvic floor

Pelvic floor disorders: urinary incontinence, prolapse, sexual dysfunction

Prevention, diagnosis, and treatment of the main female pelvic floor dysfunction with a Psycho-Neuro-Endocrine-Immunological (PNEI) approach

The role of midwife in providing pelvic floor rehabilitation

GENETICS

Genomic Imprinting

Mitochondrial inheritance: mitochondrial DNA, pattern of inheritance

Multifactorial inheritance: polymorphisms, susceptibility genes, gene-environment interaction, association studies

Pharmacogenomics and Personalised Medicine

Genetic tests and Counselling. Prenatal and postnatal testing

Diagnosis of genetic diseases: some examples

Epigenetics and nutrigenetics. Outlines

GYNECOLOGY

Benign and malignant pathology in gynaecology:

-Non-neoplastic and vulvo-vaginal neoplastic 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 cancer
- The ovary: neoplastic and non-neoplastic pathology
- Pathological cases in pregnancy: ectopic pregnancy and gestational tumors
- Breast pathology

PEDIATRICS

Prenatal period

- Organization of newborn mother care, counseling. Importance of the territory
- Maternal and neonatal transport organization in the various Italian regions and importance of the specialization levels of the birth points
- Maternal infections affecting pregnancy. Mandatory examinations in gestation, prevention and therapies
- Use of voluptuous substances and drugs and maternal-fetal and neonatal harm
- Effects of prenatal stress on the fetus and newborn
- The medical record of the newborn and the news of interest at the time of birth

Neonatal period

- Assistance of the physiological newborn in the delivery room. Reflections on bead cutting recommendations
- Characteristics of the newborn and definitions based on gestational age and weight
- Neonatal jaundice, causes and treatment. The recommendations of the Italian Society of Neonatology
- Maternal infections and consequences on the fetus and newborn
- The statutory prophylaxis at birth. Vitamin K and ocular prophylaxis. Importance of Vitamin D
- The pathological newborn. Definition of the meaning of the IUGR and the EMS
- Post-natal metabolic screenings
- Post-natal adaptation and SUPC
- Breastfeeding and Covid
- The pathological newborn. Prematurity. The late preterm
- The pathological newborn. The child of a diabetic mother

Post-natal period

- Care of the umbilical cord
- Neonatal hypoglycemia. Definition, prevention, treatment
- Complementary nutrition
- Growth and food needs
- The stillborn. The importance of communication with the team and parents

Practise

- Notes and exercises with the dummy on the first resuscitation maneuvers in the delivery room waiting for help. Explanation and application of the newborn resuscitation algorithm.
- Prejudices: reflections on what makes us choose one solution over others.

PSYCHOLOGY

Historical and epistemological foundations of psychology

Developmental psychology in the life cycle/Evolutionary psychopathology



Psychopathology and cognitive-behavioural clinical psychology
Integrated psychophysiology of human behaviour
Applied neuropsychology
Genetics, neuropsychopharmacology and clinical psychiatry
Social and communication psychology
Psychology of rehabilitation and psychosocial interventions

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 with 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:

< 18 Fail	The candidate possesses an inadequate knowledge of the topic, makes significant errors in applying theoretical concepts, and shows weak presentation skills.
18-20	The candidate possesses a barely adequate and only superficial knowledge of topic, limited presentation skills, and only an inconsistent ability to apply theoretical concepts.
21-23	The candidate possesses an adequate, but not in-depth, knowledge of the topic, a partial ability to apply theoretical concepts, and acceptable presentation skills.
24-26	The candidate possesses a fair knowledge of the topic, a reasonable ability to apply theoretical concepts correctly and present ideas clearly.
27-29	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.
30-30L	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

- Il parto anonimo. Profili giuridici e psico-sociali dopo la pronuncia di incostituzionalità – A. Arecchia, E. Rosati, S. StefanelliII - 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- PNEIREVIEW– FrancoAngeli

GENETICS

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

PEDIATRICS

- 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

OTHER MODULES

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