

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: Maria Bordoni

CFU: 1

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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: Giuseppina Liuzzi

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MODULO: General and Specialised Paediatrics

SSD: MED/38

Number of Credits: 2

Professor: Viviana Moschese

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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 the main affections of neonatal age, and childhood, explaining their prevention, diagnosis, and treatment. Moreover, the students will be able to describe the main infections during pregnancy, with particular reference: to the prevention of the same, to the interpretation of the laboratory results and to the possible diagnostic-therapeutic pathways and 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 midwifery practice and the prevention, diagnosis, and treatment of the main perineal disorders in childbearing age and menopause.

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



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European Qualifications Framework (Dublin Descriptors) as follows.
At the end of this teaching, students will be able to:

Knowledge and Understanding

- describe the characteristics of the anatomy and function of pelvic floor
- describe the methods for the prevention, diagnosis, and treatment of the main perineal disorders
- describe the importance of breathing techniques for the prevention and treatment of the perineovaginal disorders
- describe the procedures of Gynaecological and Obstetrics Emergencies management in perioperative practice
- 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

BORDONI

Gynaecological and Obstetrics Emergencies management in theatre

RICCIUTO

Anatomy and function of the pelvic floor

Pelvic floor disorders: urinary incontinence, prolapse, sexual dysfunction

Prevention and treatment of cystitis

Breathing techniques for prevention and treatment of some perineovaginal disorders

Pelvic floor exercises

CICCACCI

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



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Diagnosis of genetic diseases: some examples

Epigenetics and nutrigenetics. Outlines

LIUZZI

Importance of infections during pregnancy

Infections of the foetus: pathogenesis, efficiency of transmission of microorganism from mother to foetus, diagnosis of infection in the pregnant woman, diagnosis of infection in the newborn infant

Obstetric factors associated with infections in the foetus and newborn infant

Bacterial infections in pregnancy

Viral infections

Protozoan and fungal infections in pregnancy

PROM and infections

Neonatal sepsis

Benefit and risks of human milk

Clinical pharmacology of anti-infective drugs in pregnancy

Vaccinations in pregnancy

MOSCHESE

Bronchiolitis – Cystic Fibrosis – Celiac Disease – Inflammatory Bowel Diseases – Contagious Exanthematous Diseases – Recurrent infections and Primary Immunodeficiencies – Asthma – Allergy Diseases and Anaphylaxis – Pneumonia – Vaccines – Maternal immunization – Approach to the newborn in health and diseases – Congenital infections

MARAZZITI

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

MODULES OF BORDONI, CICCACCI, LIUZZI

The exam will be written (multiple choice question test and short-answer questions) and oral.

Students who obtained an evaluation higher than or equal to 18/30 are admitted to the oral exam. The oral exam is compulsory and aims to confirm or increase the evaluation obtained in the written exam.

MODULES OF MARAZZITI, RICCIUTO

The final evaluation of the integrated course will be oral. The evaluation criteria for the oral exam will be acquired knowledge (range score: 0-8), making judgements (range score: 0-8), communication skills (range score: 0-7), learning skills (0-7). The students must be able to demonstrate their knowledge on the contents, to organize in a critical way the topics established by the program, using an appropriate language.

OPTIONAL ACTIVITIES

Students can request optional workshops to deepen some specific topics.

READING MATERIALS

-Ragusa, Crescini; Urgenze ed Emergenze in Sala Parto; Piccin; October 2016

-Mayer's Midwifery. Macdonald, Johnson. Elsevier. 2017



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- Heather Nixon, MD, Lisa Leffert, MD; Anesthesia for cesarean delivery; Aug 2019
- Goodman, Cynthia Spry; Essentials of Perioperative Nursing; Jones & Bartlett Publishers, 2016
- Nell Tharpe, Caity Byrne; The Midwife as Surgical First Assistant; 2015
- Thompson e Thompson Genetica in Medicina, R. L. Nussbaum, R. R. McInnes, H. F. Williard
- Infezioni in gravidanza di Nicola Rizzo e Gianluigi Pilu 2012
- Elementi Essenziali di Pediatria per i corsi di laurea triennali - G.V. Zuccotti – Edizioni Esculapio
- Nelson Essentials of Pediatrics by Kliegman Robert M., Marcidante Karen; 8° edition; 2019
- The Washington Manual of Pediatrics, by Andrew J White - Lippincott Manual; February 11, 2016
- Blaney P. et al: Oxford Textbook in Clinical Psychology, 2014
- Didactic material (lessons in pdf, papers, etc.) delivered by the Professors