

## Degree in Midwifery

### Integrated Teaching: Obstetrical-gynecological nursing sciences 5 (Midwifery 5)

SSD: MED/47

Credits: 6

Responsible Professor: Edoardo Corsi

MODULES: Obstetrical-gynecological nursing sciences

SSD: MED/47

Number of Credits: 6

Professor: Edoardo Corsi

Credits: 2

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Professor: Angela Giusti

Credits: 2

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### PREREQUISITES

- Knowledge and competence in the previous Courses of Obstetrical-gynaecological nursing sciences
- A basic knowledge of the English language and the use of ICT tools is a prerequisite, including the use of spreadsheets (e.g. Excel or other).

### LEARNING OBJECTIVES

The course consists of a part of research methodology and a part of obstetric emergencies.

On one hand the module aims to promote knowledge and basic skills for the conception, design and implementation of research activities applied to professional practice. Learning will take place through the implementation of cross-sectional studies that involve the development of research protocols and questionnaires, the analysis of data using statistical software (Epi Info® - CDC) and the drafting of short reports.

On the other hand, students will be able to recognize signs, symptoms and evolution related to the main obstetric pathology and emergency. Moreover, the student will be able to recognize the first-line care, in order to solve or contain emergencies and the midwifery care in case of pathology in pregnancy.

### 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 must:

#### Knowledge and Understanding

- To describe the principles of the Evidence Based Medicine
- To consult a biomedical database (e.g. PubMed) and guidelines developed by public organizations (e.g. Istituto Superiore di Sanità-Sistema Nazionale Linee Guida and World Health Organisation)
- To read a scientific paper and evaluate its quality
- To build a research question and formulate a PICO (Population; Intervention; Control; Outcome)

- To organise a research of biomedicine literature
- To acquire competences useful for writing the final dissertation
- To acquire competences useful for the recruitment selection
- To describe the relevant aspects of the research activity for the professional practice of midwives
- To describe the main types of study, useful for professional practice
- To describe the main data collection tools
- To describe the main methods of data analysis
- To know and describe the main obstetric pathology and emergency
- To recognize the main threatening signs that identify the emergency
- To recognize the main signs and symptoms of pathology
- To describe interventions and midwifery care required during the main obstetric pathology and emergency

#### 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
- Find evidence-based information to support professional practice; the skills will be acquired through small groups work and research on the main biomedical databases.
- Translate the results of the scientific research into communicative contents, relevant to the professional practice

#### Communication Skills

- Present the topics orally in an organized and consistent manner
- Use a proper scientific language coherent with the topic of discussion
- Adopt culturally sensitive communication methods
- Write short reports

#### 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
- Manage complex clinical cases from a technical, scientific and communicative perspective, according to what has been learned

### **COURSE SYLLABUS**

#### **CORSI**

- Introduction to research methodology and Evidence Based Medicine
- The pyramid of evidence and the main types of studies
- Different approaches to science and research strategies
- The research question and the PICO model
- Scientific papers and tools for quality appraisal

#### *Supplementary topics and training*

- Sampling methods

- What is a screening test?
- How to build a research question
- How to organise a literature research on PubMed
- How to read a scientific paper and a guideline and how to assess its quality and professional usefulness

#### GIUSTI

- Epidemiology in action: the main research tools for professional practice
- The research cycle
- Main types of study useful for professional practice
- Cross-sectional studies
- Data collection: tools and methods
- How to build a questionnaire
- The quality of the data
- Data analysis: use of spreadsheets and Epi Info software
- Interpretation of the collected data
- How to integrate the different methods: quantitative research, qualitative research, mixed methods.
- How to translate research results into practice
- Communicate the results

#### TRIVELLI

- Major obstetric hemorrhage: main causes, differential diagnosis, midwifery care and team working.
- Pre-eclampsia and eclampsia: definition, signs and symptoms, midwifery care and team working
- Induction of labour: recommendations and modality, midwifery care
- Shoulder dystocia: definition and types, dystocia signs, main care pathway to solve shoulder dystocia in different contexts
- Cord prolapse: definition, signs and symptoms, midwifery care in different contexts

### **COURSE STRUCTURE**

The course consists of 84 hours of classroom teaching. The methodology includes interactive presentations, the use of multimedia tools (video, web search), role play with feedback, practical exercises, exercises in small groups with the production of a final paper, design and realization of a research project.

### **COURSE GRADE DETERMINATION**

#### MODULE OF CORSI

The evaluation will take place in three different moments: a test, classroom exercises, final oral exam. The test will check only the theoretical subject discussed during the lectures. It is composed of 30 questions with 4 answer options (only one is correct). Score: +1 for the correct answer; 0 for answer not given; -0.50 for incorrect answer. Pass mark 18/30, best mark 30/30.

Classroom exercises will be evaluated using a specific checklist given to the student during the course. Pass mark 18/30, best mark 30/30.

Each student will take the final oral exam individually, studying for the whole lecture programme. Pass mark 18/30, best mark 30/30.

The final mark is represented by the arithmetic mean of the three scores. Pass mark 18/30, best mark

30/30 with honors.

**MODULE OF GIUSTI**

The evaluation will take place during the practical activities, through the use of a check list, project works and written tests in progress.

**MODULE OF TRIVELLI**

The exam will be oral. The evaluation criteria for the oral exam will be acquired knowledge, making judgements, communication skills, learning skills.

**OPTIONAL ACTIVITIES**

Students can request optional workshops to deepen some specific topics.

**READING MATERIALS**

Polit DF, Beck CT. Essentials of nursing research: appraising evidence for nursing practice. 7th ed. Lippincott Williams & Wilkins. [not mandatory]

Materials will be provided by the Professors