



BSc in Nursing

INTEGRATED TEACHING: MATERNITY AND CHILDCARE NURSING

NUMBER OF CFU: 6

SSD: MED/40, MED/38, MED/47, MED/45

RESPONSIBLE PROFESSOR: ROMINA BELSITO

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Office hours (by appointment): Wednesday from 3 pm to 4 pm

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MODULE: GYNECOLOGY AND OBSTETRICS

NUMBER OF CFU: 2

SSD: MED/40

PROFESSOR: CRISTIANO ROSSITTO

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Office hours (by appointment): Wednesday from 3 pm to 4 pm

MODULE: GENERAL AND SPECIALISED PEDIATRICS

NUMBER OF CFU: 1

SSD: MED/48

PROFESSOR: ANGELA MASTRONUZZI

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MODULE: OBSTETRIC AND GYNECOLOGICAL NURSING

NUMBER OF CFU: 1

SSD: MED/47

PROFESSOR: DWORAKOWSKA ANETA

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Office hours (by appointment): Wednesday from 3 pm to 4 pm

MODULE: NURSING SCIENCES IN NEONATOLOGY AND PEDIATRICS

NUMBER OF CFU: 2

SSD: MED/45

PROFESSOR: ROMINA BELSITO

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PREREQUISITES

Basic concepts about:

- Basics of human anatomy, genetics and physiology, with regard to functions of main organs and apparatus.
- Basic knowledge of biology/embryology, immunology and infectious diseases.
- anatomy of the female pelvis are needed
- immune response and specific antigen, knowledge of genetics, anatomy and physiology.
- nursing care and interpersonal skills with the patient and his family

LEARNING OBJECTIVES

Aim of the Teaching is:

- to provide students with knowledge on the principles of physiology about pregnancy, delivery and the post-natal phase, and so will be able to ensure the proper nursing care required for women, babies and families.
- to identify signs and symptoms of main pathologies affecting pregnancy, including spontaneous miscarriage, alterations of the delivery phase and to enlarge care to a woman admitted in obstetrics and gynecology ward.
- to provide students with knowledge on preventive and diagnostic aspect related to health and illness during the neonatal age, childhood and adolescence. Identify the conditions that require a nurse intervention, students must be able to identify.
- to provide students with knowledge on basic notions of obstetrics and obstetric pathology (basic notions of assistance to spontaneous delivery) and basic notions of benign and malignant pathology in gynecology, with particular attention to useful surgical instrumentation for the most common procedures in gynecology and obstetrics.
- Identify physical, psychological and social needs and diagnose women's need for help, integrating theoretical knowledge with practical knowledge to meet them with scientific and technical expertise.
- Identify the needs of obstetric-gynaecological assistance that require preventive and curative skills, in specific areas of gynaecology and ultraspecialist obstetrics such as infertility also immunological, metabolic diseases and autoimmune diseases.
- Evaluate clinical manifestations related to immediate, intermediate and late physiological and pathological pregnancy in hospitalisation. Carry out assistance planned according to the adoption of guidelines verified and verifiable on the basis of scientific evidence (ebm/ebc)
- Demonstrate professional and decision-making skills in designing and implementing health and sex education interventions for women, couples and communities.
- Demonstrate the ability to design, implement and evaluate staff training measures and to contribute directly to training and updating on their own professional profile

- to provide students with knowledge on nursing assistance to the newborn and educational/relational skills to the family. These objectives will be achieved through lectures and interactive teaching activities, designed to facilitate learning and improve the ability to address and solve the main questions of Pediatric Nursing

LEARNING OUTCOMES

Knowledge and Understanding

At the end of the teaching, the student will be able to:

- Know the main signs and symptoms of pregnancy;
- Recognize the main premonitory and identificatory signs of pregnancy's pathology;
- Know and describe the main examination required in pregnancy;
- Know and describe the main pregnancy's pathology;
- Know and describe labor and delivery's phases;
- Describe the process of nursing care during the hospitalization regarding the main pathology of pregnancy, labor and delivery;
- Describe the process of nursing care required during hospitalization of women in labor, during and after delivery;
- Know how to take care of woman during breastfeeding;
- Recognize signs that define a newborn healthy or pathological;
- Describe the care of women during miscarriage.
- neonatal age, childhood and adolescence from a preventive and diagnostic point of view
- Know the clinical and functional anatomy of the female genital apparatus
- Know basic concepts of fetal development and growth
- Know the obstetric semiotics
- Know about obstetric conduct during physiological pregnancy
- Know basic concepts of prenatal diagnosis
- Know basic concepts about abortion and ectopic pregnancies
- Know basic concepts of assistance in spontaneous birth, childbirth and puerperium
- Know what kind of assistance to implement in the event of postpartum bleeding
- Know concepts of contraception
- Know the benign diseases of the uterus and ovaries, as well as how to treat these conditions
- Know the oncological pathologies of the female genital apparatus and basic concepts of the treatment of such conditions

- Knowledge of fertilization and the nesting of the embryo
- Knowledge of the physiology of pregnancy and fetal-placental units
- Knowledge of the main perinatal screening methods, invasive and non-invasive prenatal diagnosis
- Knowledge of pregnancy diseases with particular regard to related diseases (miscarriages), endocrinopathies, infectious diseases and autoimmune diseases
- Recognize “normal” infant from pathological infant.
- Recognize the main pathologies of pediatric age.
- Recognize main features of a normal growth from pathologic growth.
- Know the basic diagnostic tools of exanthematous diseases in pediatric age
- Have a basic knowledge of syndromic pediatric patients and their needs
- Follow basic knowledge of pediatric oncohematology.

Applying knowledge and understanding

At the end of the teaching the student will be able to:

- Use the acquired knowledge to take care of a woman during pregnancy, labor and delivery at the moment of hospital admission, following a nursing approach and in collaboration with other healthcare providers.
- Use the acquired knowledge to take care of a woman during a miscarriage at the moment of hospital admission, following a nursing approach and in collaboration with other healthcare providers.
- identify the conditions that require nurse support and plan essential interventions towards the main health problems
- To assist in spontaneous physiological birth; autonomously prepare an operating field for the most common gynecological interventions both in laparotomic and laparoscopic surgery.
- Use the knowledge acquired for the in-depth study of the aspects relating to the specific field for the student who will dedicate the activity of professional activity

Communication skills

At the end of the teaching, the student will be able:

- to communicate to the child and his parents
- to express themselves using scientific terminology in an appropriate and adequate manner

Making judgements

At the end of the teaching, the student will be able:

- to use the acquired knowledge to discriminate between physiology or pathology regarding a woman in pregnancy, labor and delivery and regarding the newborn.

- Recognize the patient who needs attention and nursing intervention
- Master the appropriate use of the drugs.
- Understand the basic principles of disease prevention at various ages.
- Make general evaluations and judgements concerning treated issues and topics

COURSE SYLLABUS

Syllabus GYNECOLOGY AND OBSTETRICS

- Anatomy of the female genital system
- Biological bases of reproductive function, ovarian and menstrual cycles
- Gynecological, clinical and instrumental diagnostics (gynecological objective examination, oncological cytodiagnosics, colposcopy, gynecological ultrasound, radiological examinations in gynecology, hysteroscopy)
- Hormonal alterations; anovulatory; dysmenorrhea, amenorrhea, hirsutism and polycystic ovary syndrome
- Puberty and menopause
- Contraception (hormonal; intrauterine devices; sterilization)
- Inflammation of the female genital system (vaginitis, pelvic inflammatory disease), sexually transmitted
- Diseases
- Pelvic floor pathology (urinary incontinence, utero-vaginal prolapse)
- Infertility, assisted reproductive techniques
- Cervical carcinoma screening; HPV, Pap test, dysplastic lesions
- Gynecological Oncology-diagnosis, staging and treatment
- Ovarian cancer
- Endometrial cancer
- Cervical cancer
- Vulvar cancer
- Benign pathology of the endometrium
- Benign pathology of the ovary
- Benign pathology of the uterus
- Benign pathology of the cervix
- Benign tubal disease
- Main gynecological surgical procedures

Syllabus GENERAL AND SPECIALISED PEDIATRICS

- Normal and pathologic newborn; care of the newborn at birth;
- main pediatric diseases of the respiratory system: bronchial asthma, bronchiolitis, acute otitis,
- major pediatric diseases of the digestive tract: infant colic, acute gastroenteritis, celiac disease, chronic inflammatory diseases;
- major pediatric urinary tract diseases: urinary tract infection, glomerulus post- streptococcal nephritis;
- pediatric fever, meningitis, and febrile convulsion;
- childhood infectious exanthems, and vaccinations;
- major heart malformations;
- major rheumatological diseases of the pediatric age;
- basic skills of pediatric oncohematology;
- main syndromic condition of pediatric age; physiological and pathological puberty.

Syllabus OBSTETRIC AND GYNECOLOGICAL NURSING SCIENCE

- Fertilization and implantation
- Physiological pregnancy surveillance protocol
- Ultrasound during pregnancy: principles and fundamental notions in obstetric ultrasound diagnostics
- Evaluation of fetal well-being: cardiotocography; fetal biophysical profile; Doppler velocimetry
- Labor and delivery
- Physiology of the puerperium
- Prenatal diagnosis: diagnostic techniques (amniocentesis, chorionic villus sampling, cordocentesis) and screening.
- Puerperium and breastfeeding
- Infections during pregnancy: viral infections (cytomegalovirus, rubella, parvovirus, HIV), toxoplasmosis, syphilis
- Diabetes in pregnancy
- Hypertension in pregnancy
- Thyropathy during pregnancy
- Multiple pregnancy
- Preterm birth
- Post-term pregnancy
- Extrauterine pregnancy

- Abortion
- Law 194
- Placenta previa and placental abruption
- Pathologies of the amniotic fluid (oligohydramnios, polyhydramnios)
- Rh alloimmunization, ABO isoimmunization

Syllabus NURSING SCIENCES IN NEONATOLOGY AND PEDIATRICS

- Assessment of the healthy newborn and pathological newborn
- Normal age newborn
- Neonatal screening
- Incubator
- Vital parameters
- Venous sample, arterial sample and capillary sample
- Breastfeeding
- Gavage
- Kangaroo Therapy
- Rooming in
- Feces
- Maternal milk and artificial milk
- Primary resuscitation
- Central Catheter
- Neonatal Intensive Care Unit (NICU)
- NETS
- Care in preterm
- Phototherapy
- Systems assessment and management of disorders
- Pain scales
- Neonatal abstinence syndrome
- Meconium aspiration syndrome and bronco alveolar lavage
- Triage
- Peripheral Vascular access
- Baby Cooling

- Home care

COURSE STRUCTURE

The module of Obstetric and Gynecological Nursing Science is structured in 14 hours of classes, for a maximum of 4 hours each, based on the academic calendar. Also, the student should integrate the learning process with individual study, including the elaboration of a nursing care plan regarding a specific caseload presented by the professor. (Max 1 page).

The module of General and Specialized Pediatrics is structured in 14 hours of frontal instruction, divided into 2 or 3 hours on the basis of the timetable for the academic year. Students will be free to have verbal interventions during the lessons, in order to stimulate mutual debate and discussion amongst the group.

The module of Gynecology is divided into 2 or 4 hours lessons based on the academic calendar for a total of 28 hours of frontal teaching.

The module of Neonatology and Pediatrics Nursing Science is structured in 28 hours of frontal teaching Lectures / discussions, student presentations, audiovisuals, written assignments.

Attendance is mandatory for at least 75% of the hours.

COURSE GRADE DETERMINATION

The exam of the Teaching of Maternity and Childcare Nursing is comprised of a final written exam of the modules of OBSTETRICS, GENERAL AND SPECIALIZED PEDIATRICS, GYNECOLOGY, NEONATOLOGY AND PEDIATRICS, whose mark is an integral part of the Teaching.

The knowledge and ability to understand, the ability to apply knowledge and understanding, the autonomy of judgment and the communication skills of the student will weigh in the final score as follows 30%, 30%, 30% and 10%, respectively.

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 insufficient | 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

In addition to the lectures, the student will be given the opportunity to participate in seminars, conferences and courses. The topics of the activities will not be a part of the exam.

READING MATERIALS

Reading materials for GYNECOLOGY AND OBSTETRICS

- Impoey – Child, Manuale di Ginecologia e Ostetricia, (2018), Edra Masson, ITA
- Symonds- Arulkumaran, Essentials Obstetrics and Gynecology (2029), Elsevier Eng

Reading materials for GENERAL AND SPECIALISED PEDIATRICS

- Abzug, M.J., Myron, J.L., Deterding, R.R., Hav, W.W. (2016). Current Diagnosis & Treatment. McGraw-Hill Professional.
- Dusenbery, S. M., & White, A. (Eds.). (2016). The Washington manual of pediatrics. Lippincott Williams & Wilkins
- Marcdante, K., & Kliegman, R. M. (2019). Nelson essentials of pediatrics e-book. Elsevier Health Sciences
- Zuccotti, G.V. (2017). Elementi essenziale di pediatria per corsi di laurea triennali. Esculapio.

Reading materials for OBSTETRIC AND GYNECOLOGICAL NURSING

- Macdonald, S., & Johnson, G. (Eds.). (2017). Mayes' Midwifery E-Book. Elsevier Health Sciences

Reading materials for NURSING SCIENCES IN NEONATOLOGY AND PEDIATRICS

- Kenner, C., Leslie Altimier, D. N. P., & Boykova, M. V. (Eds.). (2019). Comprehensive neonatal nursing care. Springer Publishing Company.

- Nicki L. Potts, Barbara L Mandleco (2012). Pediatric Nursing: Caring for Children and Their Families (3rd Ed.) New York: Delmar Cengage Learning.