



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Obstetric, Gynaecological and Neonatal Life-threatening Emergencies

2021-3-I0102D905

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#### Aims

The course provides students with the concepts relating to situations of urgency-emergency in obstetrics, gynaecology and neonatology; also provides expertise in high-risk maternal and foetal - neonatal morbidity and mortality. The course provide students with the basics of resuscitation and anaesthesiology and criteria treatment in obstetrics, gynaecology and neonatology.

#### Contents

The student will know the clinic, diagnosis and treatment of gynecological obstetric emergencies. The student will be able to plan an evidence based midwifery care to the mother with urgency or emergency conditions. The student will be able to plan an evidence based midwifery care to the newborn with urgency or emergency conditions. The student will know the main effects and / or complications of anesthetic drugs on the fetus and women pregnancy. The student will know the definition of urgency /emergency, and will implement the techniques of communication among health care workers.

#### Detailed program

OBSTETRIC AND GYNAECOLOGICAL EMERGENCIES MED40: Gynaecological Urgency and Emergency  
Obstetric Urgency and Emergency in the 1st Trimester of pregnancy: Abortion, Ectopic Pregnancy Obstetric

Urgency and Emergency in the 2nd and 3rd Trimester of pregnancy: Abruptio Placentae, Placenta praevia, Blood vessels praevia, Uterine rupture Not haemorrhagic obstetric Rurgency and emergencies: Umbilical cord Procidencia or Prolapse. Amniotic Fluid Embolism, Shoulder Dystocia Not haemorrhagic obstetric Rurgency and emergencies: DIC, HELLP Emergencies bleeding of postpartum and postnatal period: Post-Partum Hemorrhage, Retained Placenta, Uterine Inversion, Hematomas

NEONATAL EMERGENCIES MED/38 STEN: The Transport System in Neonatal Emergency The very low weight newborn Gastrointestinal disease: obstruction of the intestinal tract, necrotizing enterocolitis Renal Pathology: acute renal failure nephropathies malformation Neurological disease: neonatal asphyxia, behavioral frameworks, clinical-instrumental of the Nervous System disease Pathology hematologic: thrombocytopenia anemia polycythemia coagulopathies neonatal disease by maternal autoimmune diseases, Infectious disease (viral bacterial fungal septic shock) Respiratory disease (meconium aspiration syndrome, apnea respiratory distress syndrome, pneumonia transient tachypnea air-leak syndromes, malformations of the airways pulmonary malformations) Domestic accidents Neonatal Intensive Care Postnatal Adaptation Neonatal asphyxia Cardiopulmonary resuscitation in the delivery room (initial stages of resuscitation, suction the airway, ventilation with balloon and mask, external cardiac massage, support tracheal) Stabilization of critical newborn

ANAESTHESIOLOGY MED/41 Extragenital physiological changes during pregnancy of anesthetic interest Definition of Urgency / Emergency Pain: conduction systems. Epidural analgesia in labour, General and Loco Regional Anaesthesia. Preoperative Evaluation in obstetrics and gynecology: operative risk Anaesthetic equipment Main respiratory and cardiovascular monitoring methods used in obstetrics Assistance in the delivery room, operating room, and postoperative Main anesthetic drugs: effects and maternal-fetal complications Ministry of Health: Recommendation for safety in the operating room Cardiopulmonary resuscitation in adult women Cardiopulmonary Resuscitation in pregnancy

MIDWIFERY CARE IN EMERGENCY MED/47 Referring to the Midwifery Partnership Model, Midwifery Management and Rating Scales in Obstetrical-Gynecological and Neonatal Sciences, the student will know: The clinical risk management system used in emergencies TRIAGE; Apply the Midwifery Assessment in Emergency condition; Apply scientific principles and procedures in the field of Midwifery care in case of: emergencies in first, second and third trimesters of pregnancy, to the urgencies bleeding of pregnancy, postpartum and postnatal period; Apply scientific principles and care procedures (in collaboration with doctors anesthetists) in the management of non-invasive and invasive methods for monitoring of vital signs; Apply scientific principles and procedures in the management of life-saving drugs (blood products, blood transfusion; Adopt the recommendations of the Ministry of Health for the safety in the operating room; Know and apply the algorithms of cardiopulmonary resuscitation BLS-D, PBLSD, ACLS (with practical exercises); Know and apply Obstetric diagnosis (according to ICF classification) and MEOWS or M-EWS Score; know the procedures to prepare dead body in case of Maternal death.

PHARMACOLOGY BIO/14 Pharmacovigilance: general concepts; reporting to the referent ASST Toxicology and poison control centers Medications and Pregnancy: Teratology Background. Pharmacodynamics and kinetics pregnant. Drugs and breast-feeding Main drugs used in complications of pregnancy and childbirth-in obstetric emergencies (antibiotics, antivirals, analgesics, oxytocin /tocolytics. Prostaglandins, antineoplastic,) Management of the concentrated solutions of sodium, the potassium solution Complementary Medicine, Alternative Medicine.

## **Prerequisites**

None.

## **Teaching form**

Lessons, trainings.

Due to Covid 19 emergency, lessons will be held partially in the classroom and partially via recorded online classes.

## **Textbook and teaching resource**

- PAIRMAN S., PINCOMBE J., THOROGOOD C., TRACY S. Midwifery. Preparation for practice, Churchill Livingstone - Elsevier, Marrikkville, 2015, cap. 33, 36, 38, 39.
- BILLINGTON MARY & STEVENSON MANDY, Critical Care in Childbearing for Midwives, Blackwell Publishing, 2007.
- MACKWAY KEVIN - JONES, JANET MARSDEN, JILL WINDLE, Manchester Triage System (MTS), 2° edition 2005. CAMBIERI, GIRARDI, D'ALFONSO, LUONGO,BOCK, Il reparto operatorio. Progettazione, organizzazione, Controllo, 1° ed. Il pensiero scientifico editore, Roma 2010
- ANGELINI D.J, LAFONTAINE D. Obstetric Triage and Emergency Care Protocols. 2013 Springer Publishing Company e-book
- AMICO-ROXAS, CAPUTI, DEL TACCA, Compendio di farmacologia generale e speciale, Ed.: UTET, 2007.

## **Semester**

I semester.

## **Assessment method**

Written exam with multichoice answers and open answers.

Written exam with the production of an essay on midwife assistance concerning a clinical case.

Oral exam with interview to discuss written test and course program.

Due to covid 19 emergency all exams will be held remotely. The platform used is WebEx and a public link will be available on the e-learning page to access the exams.

## **Office hours**

On appointment.

