



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Anatomy and Physiology of The Human Reproduction

2223-2-I0102D903

Aims

At the end of the course the student will know the female genital tract anatomy and the human procreative process. The student will know the fundamentals of human genetics, of embryonic development and the anatomy and physiology of the placental organ.

Contents

The course provides to the student the fundamentals of anatomy and physiology of the female genital tract, of the human reproductive function. The course provides the student the knowledge about the fertility and procreative process, from fertilization to embryonic development. The course provides to the student the foundations of human genetics and the anatomy and physiology of the placental organ

Detailed program

MED.40 GENITAL TRACT ANATOMY: female and male genital tract anatomy. **MED.40 HUMAN REPRODUCTION PHYSIOLOGY:** Biology and physiology of the human reproductive function. The sterility. Medically assisted procreation. Conception, embryonic development and human fetal circulation. Afterbirths anatomy and physiology. **MED.47 FERTILITY AND PROCREATION:** Female sexual neurophysiology: normality and dysfunction. Natural fertility regulation (RNF). Contraceptive methods. The "Lactation Amenorrhea Method" (LAM). Midwifery counseling in the family planning and in case of fertility problems. **MED.03 GENETICS:** TYPES OF DIAGNOSTIC TESTS IN GENETICS: APPLICATIONS, ADVANTAGES AND LIMITS: cytogenetics, molecular cytogenetics (FISH and ARRAY CGH), molecular genetics: old and new generation sequencing. GENETIC TESTING: theoretical, empirical and modified risks, ethical and social aspects. GENETIC TESTS: classification: diagnostic, pre-symptomatic, predictive, appropriateness of genetic tests

Prerequisites

none

Teaching form

Lectures, training and group work.

Textbook and teaching resource

LADEWIG-LONDON-DAVIDSON, Assistenza alla maternità, ed it a cura di Guana-Grassi, Piccin 2012.

PAIRMAN, TRACY, THOROGOOD PINCOMBE. Midwifery. Preparation for practice, Elsevier, 2015, 3rd edition . E-book.

COCHARD LARRY R., Atlante di embriologia umana, Netter, ed. Masson, 2006.

COAD JANE (with Melvyn Dunstall), Anatomy and Phisiology for Midwives, Mosby 2011. 3^a edizione.

PAIRMAN, TRACY, THOROGOOD, PINCOMBE. Midwifery Preparation for practice. Elsevier, 2015, 3rd ed.

BONOMI, GIANATTI. I metodi naturali : teorie scientifiche e uso pratico per regolare le nascite. Pavia: Bonomi (Sessuologia umanistica), 2015.

SAPOROSI, GIROTTI. La ricerca della gravidanza nell'infertilità di coppia, Cortina (Verona), 2011

BARBATO, REDAELLI. Allattamento e ritorno della fertilità. La relazione di coppia dopo il parto. Mimep-Docete, 2014

CARLINO, DE VANNA, DEL PU. Principi di sessuologia clinica, SEU, 2011.

PANZERI. Psicologia della sessualità. Il Mulino, 2013

WHO. Medical eligibility criteria for contraceptive use, 2015

WHO, Selected practice recommendations for contraceptive use, 2017

ECEC. Emergency Contraception: a guideline for service provision in Europe. 2016

WHO. Family planning. A global handbook for providers. 3rd edition 2018

Allegato a LINEE GUIDA CONTENENTI LE INDICAZIONI DELLE PROCEDURE E DELLE TECNICHE DI PROCREAZIONE MEDICALMENTE ASSISTITA. Art. 7 - Legge n. 40/2004

Attività del registro nazionale italiano della procreazione mediamente assistita, 2018. ISS

Semester

I semester

Assessment method

Written exam with multichoice answers and open answers.
Oral exam with interview to discuss written test and course program.

Office hours

On appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
