

**DESCRIPTION OF COURSE UNIT FOR DOCTORAL STUDIES
AT VILNIUS UNIVERSITY**

Scientific Area/eas, Field/ds of Science	Medical and Health Sciences (M 000): Medicine (M 001)			
Faculty, Institute, Department/Clinic	Faculty of Medicine Institute of Clinical Medicine Clinic of Obstetrics and Gynecology			
Course unit title (ECTS credits, hours)	Clinical Obstetrics and Gynaecology 9 credits (243 hours)			
Study method	Lectures	Seminars	Consultations	Self-study
Number of ECTS credits	-	1*	1	7
* seminars are organized if course is chosen by 5 and more students				
Method of the assessment (in 10 point system)	Presentation and assessment of the thesis on maternal and child health. The topic of the thesis is defined with one of the consulting lecturers. The doctoral student presents the thesis during the meeting of the Clinic of Obstetrics and Gynecology or the clinical conference of the Center for Obstetrics and Gynecology of Vilnius University Hospital. The doctoral student must analyze, review, and present the latest scientific publications related to the target topic or provide an analysis of a clinical case. The report is evaluated on a 10-point scale: 10 - excellent; 9- very good; 8- well; 7 - on average; 6 - satisfactory; 5 - weakly; 4 - 1 point - unsatisfactory. The criteria to be assessed - content of the report (idea/hypothesis, clearly stated purpose, explanation of the literature search strategy, provided analysis of the clinical case, clarity of results and conclusions), technical / visual presentation (clarity of tables and figures, compliance with literature citation requirements, the text without grammatical and style errors, presentation visually appealing), presentation of the report (ability to participate in discussion, question management, oratory skills).			
PURPOSE OF THE COURSE UNIT				
The PhD student will be able to understand the most common diseases of pregnant women, the pathology of pregnancy, the methods of assessment of the fetus well-being during pregnancy and delivery; to know the specific and non-specific genital inflammation, ectopic pregnancy, endometriosis, uterine fibroids, acute abdominal pain, their clinic, diagnosis, principles of treatment and prevention; to clarify the methods of family planning and contraception and the principles of diagnosis and of infertility, the possibilities of assisted reproduction, the main diseases of gynaecologic oncology and their clinic, diagnosis, principles of treatment and prevention, the principles and management of women's health screening programs in Lithuania, the specialized assistance provided to victims of sexual violence against women.				
THE MAIN TOPICS OF COURSE UNIT				
Physiology and pathology of pregnancy. Perinatal care in Lithuania. Risk factors for pregnancy, low and high risk pregnancy, significance. Preterm delivery - definition, relevance of the problem, epidemiology, social, economic and medical factors. Prediction of preterm delivery, risk factors, possible prevention. Intrauterine infection, diagnostics and management, treatment options. The aims, management, methods, effectiveness of preterm birth treatment. Multiple pregnancy, chorionicity. Diagnosis of chorionicity, the role of ultrasound. Multiple				

pregnancy: prognosis, peculiarities of the management, maternal and fetal complications, the time and methods of termination of pregnancy. Fetal well-being assessment during pregnancy: non-invasive and invasive methods. Fetal movement counting. Principles of ultrasound examination. Oligohydramnios. Polyhydramnios. Rh incompatibility during pregnancy: background, pathophysiology, prevention of isoimmunization. Assessment and management of Rh isoimmunization, evaluation of fetal damage, intrauterine treatment and timing of pregnancy termination.

Intrauterine growth restriction, relevance of the problem, possible causes. Types of growth restriction. Diagnosis of intrauterine growth restriction, significance of ultrasound dopplerometry, management and fetal well-being assessment, treatment options, the timing for pregnancy termination.

The most common diseases of pregnant women. Hypertensive disorders, maternal and fetal complications, pregnancy management. Bleeding (spontaneous abortion, placenta praevia, placental abruption). Gestational diabetes. Intrahepatic cholestasis. Anemia. Gestational thrombocytopenia. General diseases.

Critical conditions in obstetrics: bleeding, eclampsia, HELLP syndrome, pulmonary embolism and deep venous thrombosis: diagnostics and treatment.

Childbirth physiology and pathology. The stages of labour and birth, the care during childbirth. Evaluation of fetal well-being during labour, indications, significance, methodology. Fetal distress. Instrumental delivery, indications, methods, maternal and fetal – newborn complications. Caesarean delivery. Childbirth after a previous cesarean section. Postpartum bleeding - causes, diagnosis, treatment, prevention. Postpartum infection - endometritis, mastitis, sepsis.

Neuroendocrine regulation of the menstrual cycle and the pathology of this regulation. Physiology of ovulation and its determinants. Menstrual disorders. Abnormal uterine bleeding. Premenstrual syndrome. Chronic anovulation syndrome, differential diagnosis with other neuroendocrine syndromes and with hyperandrogenism of other origins. Principles of treatment depending on the need to preserve reproductive function. Dysmenorrhea. Polycystic ovarian syndrome.

Ectopic pregnancy, causes, diagnosis, treatment, complications.

Gynecologic infection. Inflammatory diseases of the external genitalia and vagina. Bacterial vaginosis. Pelvic inflammatory disease. Sepsis. Sexually transmitted diseases.

Chronic pelvic pain and its differential diagnosis. Endometriosis.

Benign genital tumors and cancer. Precancerous diseases and cancer of the external genitalia. Precancerous diseases and cancer of the cervix: criteria for conservative management and surgical treatment. Cervical Cancer Screening Program. HPV vaccination. Endometrial hyperplasia and cancer. Uterine fibroids. Medical and surgical treatment, indications. Ovarian benign tumours and cancer. Principles of chemotherapy, principles of surgical treatment.

Family planning and infertility. Goals and methods of family planning, their reliability, indications, contraindications. Evaluation of the infertile family. Causes of infertility. Infertility in women and men. Patient management. Treatment of infertility. Ovulation induction. Law on Assisted Reproduction in Lithuania.

Menopause. Perimenopausal and postmenopausal periods, symptoms and management. Postmenopause: A woman's quality of life during postmenopause. Menopausal hormone therapy: indications and contraindications. MHT preparations, regimens: cyclic and continuous regimen.

Pelvic floor pathology. Pelvic organ prolapse. Conservative and surgical treatment of urinary incontinence. Cosmetic, functional and reconstructive gynecology.

Sexual violence.

Breast disease. Benign breast disease. Breast cancer. Breast Cancer Screening Program.

RECOMMENDED LITERATURE SOURCES

1. Akušerijos ir neonatologijos diagnostikos ir gydymo metodikos 2019-2020. <https://sam.lrv.lt/lt/veiklos-sritys/programos-ir-projektai/sveicarijos-paramos-programa/akuserijos-ir-neonatologijos-diagnostikos-ir-gydymo-metodikos>.
2. Williams Obstetrics. F. G. Cunningham, K. J. Leveno, J.S. Dashe, B. L. Hoffman, C. Y. Spong, B. M. Casey. 26th ed. Mc Grow Hill Education 2022. The McGraw-Hill Companies; <https://accessmedicine.mhmedical.com/book.aspx?bookID=2977>
3. Williams Gynecology. Hoffman BL, Schorge JO, Halvorson LM, Hamid CA, Corton MM, Schaffer JI. 4e. McGraw Hill, 2020. <https://accessmedicine.mhmedical.com/content.aspx?bookid=2658§ionid=217599855>.
4. Menopauzė. Menopauzinė hormonų terapija (MHT) klinikinės rekomendacijos, 2021. https://lagd.lt/data/public/uploads/2021/06/d1_menopauze.pdf
5. K. Jarienė, R. Nadišauskienė. Seksualinis smurtas. Profesionalaus elgesio taktika. Kaunas, UAB "Vitae Litera" 2019. ISBN:9786094543630
6. Nevaisingumo diagnostikos ir gydymo metodika (2019). https://sam.lrv.lt/uploads/sam/documents/files/Nevaisingumo%20metodika%20SAM_2019-07-22.pdf
7. Kontracepcijos metodika 2016. https://sam.lrv.lt/uploads/sam/documents/files/Veiklos_sritys/Kontracepcijos_metodika_2016-11-22.pdf
8. Nassar, Anwar H.; Visser, Gerard H.A.; Nicholson, Wanda Kay; Ramašauskaitė, Diana; Kim, Yoon Ha; Barnea, Eytan R. FIGO statement: vaccination in pregnancy // International journal of gynecology and obstetrics: Special section: From the FIGO Safe Motherhood & Newborn Health Committee. Hoboken : Wiley. ISSN 0020-7292. eISSN 1879-3479. 2021, vol. 152, iss. 2, p. 139-143. DOI: 10.1002/IJGO.13456.
9. Romeikienė KE, Bartkevičienė D. Pelvic-Floor Dysfunction Prevention in Prepartum and Postpartum Periods. Medicina (Kaunas). 2021 Apr 16;57(4):387. doi: 10.3390/medicina57040387.
10. Voiniūšytė, Austėja; Černiauskaitė, Miglė; Paliulytė, Virginija; Ramašauskaitė, Diana. COVID-19 ir HELLP sindromo diferencinės diagnostikos savitumai nėštumo laikotarpiu // Lietuvos akušerija ir ginekologija. Kaunas : Vitae litera. ISSN 1392-5091. 2021, t. 24, Nr. 3, p. 252-257. [DB: Index Copernicus]
11. Balčiūnienė, Greta; Kvederaitė-Budrė, Greta; Gulbinienė, Violeta; Pilypienė, Ingrida; Drąsutienė, Gražina Stanislava; Ramašauskaitė, Diana. Antenatalinė chorioamnionito diagnostika // Lietuvos akušerija ir ginekologija. Kaunas : Vitae litera. ISSN 1392-5091. 2021, t. 24, Nr. 33, p. 190-194. [DB: Index Copernicus]
12. Visser GHA, Nicholson WK, Barnea ER, Ramasauskaite D, Nassar AH; FIGO Safe Motherhood, Newborn Health Committee, Fernanda Escobar M. FIGO position paper on reference charts for fetal growth and size at birth: Which one to use? Int J Gynaecol Obstet. 2021 Feb;152(2):148-151. doi: 10.1002/ijgo.13500.
13. P.J. DiSaia, W.T. Creasman, R.S. Mannel, D. Scott. Clinical Gynecologic Oncology, 9th edition, 2017. Elsevier. ISBN: 978-0-3230-7419-3.

CONSULTING LECTURERS

1. Coordinating lecturer: Diana Ramašauskaitė (Prof. Dr.).
2. Vilius Rudaitis (Assoc. Prof. Dr.).
3. Jolita Zakarevičienė (Assoc. Prof. Dr.).
4. Mindaugas Šilkūnas (Assoc. Prof. Dr.).

APPROVED:

By Council of Doctoral School of Medicine and Health Sciences at Vilnius University:
29th of September 2022

Chairperson of the Board: Prof. Janina Tutkuvienė