



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Obstetrics (2023-2024)	

Lecturer(s)	Department(s) where the course unit (module) is delivered
Coordinator: assist. Virginija Paliulytė Other(s): prof. Diana Ramašauskaitė, partn. prof. Kornelija Mačiulienė, assoc. prof. Rasa Vansevičiūtė-Petkevičienė, assoc. prof. Dalia Laužikienė, assoc. prof. Jolita Zakarevičienė, assoc. prof. Daiva Bartkevičienė, prof. Žana Bumbulienė, assoc. prof. Mindaugas Šilkūnas, assoc. prof. Vilius Rudaitis, assist. Andrė Amšiejienė, lect. Ieva Daunoravičienė, assist. Gintautas Domža, assist. Diana Bužinskienė, assist. Kristina Norvilaitė, lect. Bronius Žaliūnas, lect. Rūta Breivienė, lect. Ernestas Frolovas, assist. Greta Balčiūnienė, j.assist. Živilė Sabonytė-Balšaitienė, assist. Viktorija Žitkutė, lect. Agnė Matuolytė, j. assist. Linas Andreika, lect. Guoda Varytė	Vilnius University, Clinic of Obstetrics and Gynecology, Santariskiu 2, Vilnius

Study cycle	Type of the course unit (module)
Integrated studies (stages I and II)	Compulsory

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Lectures and seminars are delivered in the auditorium. Practical part of the workshop takes place in the delivery room, reception, procedure room and operating room, in simulator classes.	Semester V	Lithuanian, English

Requirements for students	
Prerequisites: A student must have completed the following courses: Human anatomy and histology, Human physiology, Pharmacology, Pathology, General surgery, Abdominal surgery, Endocrinology, Pediatrics and Neonatology, Propaedeutics of Internal diseases, General and Human genetics, Biochemistry, Microbiology, General and Human biology, Latin language, Psychology, Anaesthesiology and Reanimathology.	Additional requirements (if any): no.

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5	133	66	67

Purpose of the course unit (module): programme competences to be developed
Purpose – to know physiology and pathology of pregnancy, antenatal care of low and high risk pregnancy, the mechanism of normal and pathological labour, stages of delivery, malpositions and malpresentations, all kind of delivery distortions, preterm and postterm pregnancy, pregnancy specific diseases and urgent situations, algorithms of diagnostics and treatment of them, antenatal assessment of fetal wellbeing. At the end of obstetrics course student must be able to take an obstetric history, evaluate the risk factors, fetal wellbeing,

ascertain the beginning of labour, to make up observation plan of delivery, to recognize pregnancy associated diseases and treatment protocols, become acquainted with indications and technique of the operative methods of delivery.		
Learning outcomes of the course unit (module)	Teaching and learning methods	Assessment methods
Generic competences At the end of this course graduate the student will be able:		
To act fairly and according to ethical obligations, apply good medical practice principles at work, be emphatic, to think critically and self-critically, be creative, take the initiative, to communicate with others	Lectures in the auditorium, workshops in simulator classes, reception, obstetrics department, delivery room and operating room. Discussion in group.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge.
To make an assessment within the scope of one's competence and, if necessary, ask for help, to act in new situations and adapt to them, to act independently, to solve problems, to make judgements, to work with specialists of other fields, to organise and plan	Lectures in the auditorium, workshops in simulator classes, reception, obstetrics department, delivery room and operating room.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge.
Subject-specific competence: At the end of this course graduate the student will be able:		
To know physiological changes of women during pregnancy period, to diagnose pregnancy, to observe pregnant women generally and specifically. To understand the principles of antenatal care of low and high risk pregnancy and its peculiarity for mother and baby.	Workshops in obstetrics department, delivery rooms, operation room, taking history of patient, physical examination, practical tasks in workstations, analysis of documentation, cardiocograms, attendance on 2 duties, lectures, case analysis, oral questioning in group and individually.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge. Evaluation of written delivery case. At the end of course – written examination according to established order.
To know principles of fetal wellbeing assessment and methods of prenatal diagnostics.	Workshops in obstetrics department, reception, taking history of patient, physical examination, practical tasks in workstations, analysis of documentation, cardiocograms, attendance on 2 duties, lectures, case analysis, oral questioning in group.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge. At the end of course – written examination according to established order.
To understand symptoms and mechanisms of normal delivery, supervise women in labour, assess fetal wellbeing and supervise women in postpartum period.	Workshops in obstetrics department, reception, taking history of patient, physical examination, practical tasks in workstations, analysis of documentation, cardiocograms, attendance on	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of

	2 duties, lectures, case analysis.	knowledge. Evaluation of written delivery case. At the end of course – written examination according to established order.
To know symptoms of general and specific diseases of pregnant women, to diagnose them and can be able to prescribe adequate treatment.	Workshops in obstetrics department, delivery rooms, operation room, taking history of patient, physical examination, practical tasks in workstations, analysis of documentation, cardiotocograms, attendance on 2 duties, lectures, case analysis, oral questioning in group and individually.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge. Evaluation of written delivery case. At the end of course – written examination according to established order.
To understand causes and symptoms of pathologic delivery, to evaluate state of fetus wellbeing during pathologic labour, to understand indications and principles of adequate treatment (operative and nonoperative).	Workshops in obstetrics department, delivery rooms, operating room, practical tasks in workstations, attendance on work of perinatal centre, on 2 duties, analysis of documentation, lectures, oral questioning in group and individually.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge. At the end of course – written examination according to established order.
To communicate with pregnant women and with women in labour, with relatives of patients. Properly and completely keep and store medical documentation, use computer, search for sources of literature, keep medicine secret.	Workshops in obstetrics department, delivery rooms, operating room, practical tasks in workstations, on 2 duties, analysis of documentation, protocols, lectures, oral questioning in group and individually.	Practical knowledge assessment in simulator classes, reception, obstetrics department, delivery room and operating room. Oral questioning in group and individually, case report and discussion, causal assessment of knowledge. At the end of course – written examination according to established order.

Content: breakdown of the topics	Contact hours							Self-study work: time and assignments	
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work placement	Contact hours	Self-study hours	Assignments
1. Organisation of obstetrical care in Lithuania. Risk factors in pregnancy. Antenatal care. Diagnostic signs of pregnancy. Physiology of pregnancy. Examination of pregnant women: obstetrical history, general examination, external (incl. Leopold's maneuvers) and internal obstetrical examination.	2		2	4				6	To prepare for workshop on organization of obstetric care. To get acquainted with purposes and tasks of perinatal medicine. To prepare for workshop on signs of pregnancy.

										To be able to take obstetrical history, examine the pregnant women. Self-dependent work with simulators
2. Antenatal assessment of fetal wellbeing. Ultrasound significance. Fetal growth disorders: growth retardation and macrosomia. Rh isoimmunization. Perinatal medicine.	2		2	2					6	To prepare for workshop on diagnostic methods of fetal wellbeing. To be acquainted with fetal ultrasonography.
3. Physiology of labour. Female pelvis. Fetus (head dimensions). Fetal positions and presentations. The mechanism of normal labour. Periods and stages of labour. Care of women in labor. Fetal wellbeing assessment in labour. Physiology of puerperium. Lactation. Breastfeeding.	2		2	4					13	To prepare for workshop on labour periods and postpartum period. To know principle differences of delivery in primiparas and multiparas. To know the mechanism, periods and stages of normal labour. To know principles of postpartum care and breastfeeding. Self-dependent work with simulators.
4. Hypertension disorders in pregnancy: classification, etiology, risk factors, diagnostics. Preeclampsia, eclampsia, HELLP syndrome. Specific diseases of pregnancy: nausea, vomiting, salivation. Risk factors of hypertensive disorders in pregnancy.	2		4	2					6	To prepare for workshop on pregnancy induced hypertension and specific diseases of pregnancy. To know classification, etiology, risk factors, diagnostic and treatment.
5. Obstetrical haemorrhage: during pregnancy, in labour and postpartum.	2			2					6	To prepare for workshop on haemorrhage in obstetrics. To know basic principles of management in this situation.
6. Perinatal infection: etiology, symptoms, diagnostics, treatment and prophylaxis. Preterm labour. Multiple pregnancy: complications in pregnancy and labour. Peculiarity of women care. Postpartum infection.	2		4	2					7	To prepare for workshop on epidemiology of perinatal infection, diagnostics, treatment and prophylaxis. To know clinical signs of preterm labour. To know the main complications of twin pregnancy and care principles of women. To prepare for workshop on epidemiology of postpartum infection, diagnostics, treatment and prophylaxis.
7. Labor dystocia: prolonged and obstructed	2		2	2					7	To prepare for

labor. The use of Oxytocin during labor. Malpresentations of fetal lie. Brow and face presentation: the mechanism of labor. Transverse and oblique lie. Breech presentation. Shoulder dystocia.								workshop on labor dystocia, its types and causes. Self-dependent work with simulator.	
8. Preterm labour. Fetal lung maturation. Tocolysis. Labour induction, indications, methods. Postterm pregnancy. Induction of labor: indications, methods and complications.			2	2				4	To prepare for workshop on preterm and postterm pregnancy. To know methods of labour induction.
9. Diabetes in pregnancy: diabetes mellitus and gestational diabetes. Pregnancy and systemic diseases: cardiovascular disorders, anaemia, epilepsy, thrombophilia.	2		4	2				6	To prepare for workshop on diabetes in pregnancy and other systemic diseases during pregnancy.
10. Obstetrical operations: caesarean section, forceps, vacuum extraction. Pathology of puerperium (birth canal injuries, puerperal infection of perineal lesions, uterus and breasts).			4	2				6	To prepare for workshop on obstetrical procedures and operations. To know indications and techniques of caesarean section, self-dependent work with simulator.
Total	16		26	24				66	67

Assessment strategy	Weight, %	Deadline	Assessment criteria
Practical skills in obstetrics	40	During semester	<p>Assessment of student ability to exam a patient – practical skills – taking obstetrical history, inspection, palpation, external and internal obstetrical examination, evaluation of fetus wellbeing, evaluation of clinical and laboratory findings.</p> <p>The assessment system creates from 10 points: 10 – excellent knowledge, 9 – very good knowledge, 8 - good knowledge, 7 – good enough (average) knowledge, 6 – satisfactory knowledge, 5 – sufficient, 4 and less – insufficient knowledge.</p>
Examination: Test	60	After module	<p>Test is composed of 50 questions: 30 questions – one correct answer; 10 questions – more than one correct answer; 10 clinical situations.</p> <p>Points are given for correct answers. The assessment system creates from 10 points.</p> <p>10 points – 50-47 correct answers, 9 points – 46-43, 8 points – 42-39, 7 points – 38-35, 6 points – 34-30, 5 points – 29-25, 0-4 points – does not fulfil minimal requirements (less 50 correct answers).</p> <p>The assessment system creates from 10 points: 10 – excellent knowledge, 9 – very good knowledge, 8 - good knowledge, 7 – good enough (average) knowledge, 6 – satisfactory knowledge, 5 - sufficient, 4 and less – insufficient knowledge.</p>
Overall assessment	100	After module	Exam – is the final assessment of workshop, knowledges from lectures and practical skills. The assessment system creates from 10 points according to amount of points and percentage

			weight: 10 – excellent knowledge, 9 – very good knowledge, 8 - good knowledge, 7 – good enough (average) knowledge, 6 – satisfactory knowledge, 5 - satisfactory enough knowledge, 4 and less – unsatisfactory knowledge.
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Author	Year of publication	Title	Issue of a periodical or volume of a publication	Publishing place and house or web link
Compulsary reading				
F.G.Cunningham ir kt.	2022	Williams Obstetrics, 26rd ed.		The McGraw-Hill Companies; https://accessmedicine.mhmedical.com/book.aspx?bookID=2977
D.James ir kt.	2011	High risk pregnancy, 4th ed.		Elsevier
DeCherney AH et al.	2019	CURRENT Diagnosis & Treatment: Obstetrics & Gynecology, 12th ed		McGraw-Hill Education; https://accessmedicine.mhmedical.com/book.aspx?bookID=2559
Optional reading				
Funai EF et al.	2019	Management of normal labor and delivery		https://www.uptodate.com/contents/management-of-normal-labor-and-delivery
Signore C et al.	2019	Overview of antepartum fetal surveillance		https://www.uptodate.com/contents/overview-of-antepartum-fetal-surveillance?search
Eric Jauniaux et al. (FIGO Placenta Accreta Diagnosis and Management Expert Consensus Panel members)	2018	FIGO consensus guidelines on placenta accreta spectrum disorders		https://obgyn.onlinelibrary.wiley.com/doi/full/10.1002/ijgo.12406
Safe Motherhood and Newborn Health Committee - FIGO	2015	FIGO Intrapartum Fetal Monitoring Course (PowerPoint slides for download)		https://www.figo.org/figo-committee-and-working-group-publications
Lalonde AB et al.	2014	Mother–Baby Friendly Birthing Facilities Initiative		https://obgyn.onlinelibrary.wiley.com/doi/full/10.1016/j.ijgo.2014.11.002