

# **CLINICAL MEDICINE 5**

# SIXTH YEAR OF STUDIES

Subject:

# **GYNECOLOGY AND OBSTETRICS**

Subject is marked with 10 ESPB with 6 hours of active classes per week. (3 classes of lectures and 3 classes of working in smaller groups)

# **LECTURERS AND ASSOCIATES :**

RB	Name and surname	Email address	
1.	Prof. dr Mirjana Varjacic	miravarjacic@yahoo.com	Professor
2.	Prof. dr Janko Djuric	jnkdjuric@yahoo.com	Professor
3.	Prof. dr Aleksandar Zivanovic	sasazivanovic@hotmail.com	Professor
4.	Prof. dr Zoran Protrka	protrka.zoran@gmail.com	Professor
5.	Assoc Prof. dr Marija Sorak	soraks@sbb.rs	Associate professor
6.	AP dr Goran Babic	ginbabic@gmail.com	Assistant professor
7.	AP dr Petar Arsenijevic	petar.arsenijevic@yahoo.com	Assistant professor
8.	Dr Dragan Loncar	drloncarsbb@gmail.com	Assistant with Ph.D
9.	Dr Nikola Jovic	docctorny@gmail.com	Assistant
10.	Dr Marija Bicanin Ilic	malaabahelica@gmail.com	Assistant
11.	Dr Dejana Rakic	dejavulovic@gmail.com	Lecturing associate

# **STRUCTURE OF THE SUBJECT :**

Module	Name of the module	Week	Lectures per week	Little group work per week	Module head lecturer	
1	Gynecology	7	3	3	AP dr Goran Babic	
2	Obstetrics	8	3	3	AP dr Goran Babic	
					Σ45+45+90	

# **EVALUATION:**

The student masters the subject in modules. The grade is equivalent to the number of points earned (see tables). Points are earned in three ways:

**ACTIVITY DURING LESSONS:** Attendance at lectures is mandatory, because in this way students fulfill the requirement for the weekly examination. In this way, the student can gain up to 30 points, and this is because after completing the practical classes, the student answers 2 exam questions from that week of classes and, in accordance with the demonstrated knowledge, gains 0 - 2 points. An alternative to the mentioned examination (in relation to the current epidemiological situation) is to take a weekly activity in the form of a test (on the FMN platform) consisting of 10 questions, where each question is scored with 0.2 points.

**FINAL TESTS BY MODULES:** In this way, the student can gain up to 30 points, according to the attached table. Module test 1 consists of 28 questions, and module test 2 consists of 32 questions. Each question is scored with 0.5 points.

**FINAL (ORAL) EXAMINATION:** In this way, the student can gain 40 points, that is, the student answers five questions orally, with each question being scored with a maximum of 8 points. In order to pass the exam, the student must obtain more than 50% points in the final exam. If the student does not get more than 50% of the points in the oral exam, he has not passed the exam.

			MAXIMUM POINTS		
	MODULE	Activity during lectures	Tests by modules	Final skills check	Σ
1	Gynecology	14	14		28
2	Obstetrics	16	16		32
				40	40
	Σ	30	30	40	100

<u>CONSULTATIVE LECTURES</u>: Consultations can be done with the Head of the Department AP. Dr. Goran Babić (ginbabic@gmail.com) and secretary of the Department asst. Dr. Nikolom Jović (docctorny@gmail.com).

The final grade is formed as follows: In order to pass the course, the student must obtain a minimum of 55 points, pass all modules and pass the final oral exam.

To pass the module the student must:

- 1. Gain more than 50% points in each module
- 2. Acquires more than 50% of the points provided for the teaching activity in each module
- 3. To pass the test from that module, i.e. to have more than 50% correct answers

Number of earned points	Mark
0 - 54	5
55 - 64	6
65 - 74	7
75 - 84	8
85 - 94	9
95 - 100	10

# **TESTS BY MODULES**

# MODULE 1.

# **MODULE 1. TEST** 0-14 ПОЕНА

## Marking of the final exam The test has 28 questions

The test has 28 questions Each question is worth 0.5 points

# MODULE 2.

# **MODULE 2. TEST** 0-16 ПОЕНА

#### Marking of the final exam

The test has 32 questions Each question is worth 0.5 points

# LITERATURE:

# lectures are available on the website of the Faculty of Medical Sciences: www.medf.kg.ac.rs

TEXTBOOK NAME	AUTHORS	PUBLISHER	LIBRARY
WILLIAMS GYNECOLOGY	Barbara L. Hoffman, John O.Schorge, Lisa M. Halvorson, Cherine A. Hamid, Marlene M. Corton, Joseph I. SHaffer	McGraw-Hill Professional	Not available
WILLIAMS OBSTETRICS	F. Gary Cunninham, Kenneth J.Leveno, Jodi S. Dashe, Barbara L. HOFFMAN, Catherine Y. Spong, Brian M. Casey	McGraw-Hill Professional	Not available

# FIRST MODULE-GYNECOLOGY

# LECTURE SUBJECT 1 (FIRST WEEK):

Ana	tomy
Lectures 3 classes	Practice 3 classes
<b>Anatomy</b> (Anterior Abdominal Wall, Pelvic Anatomy, Uterus, Ovaries and Fallopian Tubes, Vagina, Vulva and Perineum, Lower Urinary Tract Structures, Rectum, Pelvic Blood Supply, Pelvic Innervation, Lymphatic Drainage)	Anatomic Disorders (Normal Embryology, Gonadal Differentiation, Congenital Ambiguity of the Genital Tract, Female and Male Pseudohermaphroditism, Hymeneal Defects, Transverse and Longitudinal Vaginal Septum, Müllerian Anomalies, Asherman Syndrome, Cervical, Ovarian and Falopian tube Defects)

# LECTURE SUBJECT 2 (SECOND WEEK):

# Reproductive Endocrinology, Clinical Hypothalamic – Pituitary - Adrenal Axis Abnormalities, Pediatric and Geriatric Gynecology

Lectures 3 classes	Practice 3 classes
<b>Reproductive Endocrinology</b> (Reproductive Neuroendocrinology, Hypothalamic - Releasing Peptides, Growth Hormone - Releasing Hormone, Oxytocin, Peptide Hormones in	Hyperprolactinemia, Pituitary Adenomas,
Reproduction, Steroid Hormones in Reproduction, Endocrinology of Pregnancy)	

# LECTURE SUBJECT 3 (THIRD WEEK ):

Normal menstrual cy	vcle, abnormal uterine bleeding
Lectures 3 classes	Practice 3 classes
NormalMenstrualCycle(SteroidogenesisAcrosstheLifeSpan,OvarianMorphology – Primary, SecondaryandTertiaryFollicle,FollicularPhase,OvulationandLutealPhase,Endometrium-HistologicMenstrualCycleChanges,RegulationofEndometrialTissueDegradationandHemorrhage,EndometrialDatingandLutealPhaseDefect,Phase)	

- Abnormal Uterine Bleeding (Pathophysiology, Menorrhagia and Metrorrhagia, Dysfunctional Uterine Bleeding, Structural Abnormalities, Endometrial Polyp, Coagulopathy)

### LECTURE SUBJECT 4 (FOURTH WEEK):

Amenorrhea, polycystic ovarian syndrome and hyperandrogenism, premenstrual syndrome and dismenorea, pelvic pain

Practice 3 classes

#### LECTURE SUBJECT 5 (FIFTH WEEK):

## Medilac history and physical examination, Techniques Used for Imaging in Gynecology, Cancer Screening, Invasive diagnostic procedures

Lectures 3 classes
Medical History and Physical Examination
(Anamnesis, Pelvic Examination, Speculum
Examination, Bimanual Examination,
Rectovaginal Examination, Hormonal analyses)
- Techniques Used for Imaging in Gynecology
(Sonography, Doppler Technology,
Radiography, Hysterosalpingography, Computed
Tomography, Magnetic Resonance Imaging)
- Cancer Screening (Cervical Cancer –
Colposcopy and Papanicolau test, Bethesda
classification, Endometrial Cancer, Ovarian
Cancer, Vaginal secret, TU markers)
- Invasive Diagnostic Procedures (Vulvar,

## LECTURE SUBJECT 6 (SIXTH WEEK):

## Gynecological infection, pelvic inflammatory disease, sexually transmitted diseases

Lectures 3 classes	Practice 3 classes
<ul> <li>Gynecologic Infection (Normal Vaginal Flora, Bacterial Vaginosis, Genital Ulcer Infections, Syphilis, Granuloma Inguinale, Lymphogranuloma Venereum, Fungal Infection, Trichomoniasis, Suppurative Cervicitis, Chlamydia trachomatis)</li> <li>Pelvic Inflammatory Disease (Acute and Chronic PID, Abscess gl. Bartholin, Postoperative Infection, Pelvic Cellulitis, Pelvic Abscess, Toxic Shock Syndrome, Fasciitis, Peritonitis)</li> <li>Sexually transmitted diseases (AIDS, HPV, HSV1, HSV2, Hepatitis)</li> </ul>	

### LECTURE SUBJECT 7 (SEVENTH WEEK):

#### Endometriosis, ectopic pregnancy, gestational trophoblastic disease

Lectures 3 classes
- Endometriosis (Etiology, Pathophysiology,
Risk Factors, Classification and Location of
Endometriosis, Patient Symptoms, Differential
Diagnosis, Diagnosis, Treatment)
- Ectopic Pregnancy (Classification,
Epidemiology, Pathophysiology, Risk Factors,
Clinical Manifestations, Differential Diagnosis,
Diagnosis, Treatment - Surgical and Medical)
- Gestational Trophoblastic Disease
(Hydatidiform Mole – Complete and
Incomplete, Invasive Mole, Gestational
Choriocarcinoma, Placental Site Trophoblastic
Tumor)

#### LECTURE SUBJECT 8 (EIGHTH WEEK ):

#### **Contraception, first trimester abortion**

**Contraception** (Hormonal Contraceptives, Transdermal Administration, Transvaginal Administration, Intramuscular Administration, Intrauterine Contraceptive Device, Male and Female Condom, Spermicides and Microbicides, Diaphragm Plus Spermicide, Contraceptive Sponge, Cervical Cap, Contraceptiv Method, Sterilization)

- First-Trimester Abortion (Missed Abortion, Incomplete and Complete Abortion, Septic Abortion, Threatened Abortion, Therapeutic Abortion, Techniques for Early Abortion – Surgical and Medical)

#### LECTURE SUBJECT 9 (NINTH WEEK):

#### **Evaluation of the infertile couple, treatment of infertile couple**

Lectures 3 classes	Practice 3 classes

**Evaluation of the Infertile Couple** (Epidemiology, Etiology, Medical History, Physical Examination, Evaluation for Specific Causes of Infertility, Radiologic and Surgical Approaches for Evaluation of Pelvic Structures, Semen Analysis)

- Treatment of the Infertile Couple (Lifestyle Therapies, Correction of Ovarian Dysfunction, Complications of Fertility Drugs – OHSS, Tubal Reconstruction, Correction of Male Infertility, Intrauterine Insemination, Assisted Reproductive Technologies – IVF, ICSI, GIFT, ZIFT, Cryopreservation, Pre-Implantation Genetic Diagnosis - PGD

### LECTURE SUBJECT 10(TENTH WEEK):

# Pelvis mass and pelvic organ prolapse

Lectures 3 classes	Practice 3 classes
<ul> <li>Pelvic Mass – Uterus (Leiomyomas – Pathologic Appearance, Role of Hormones, Risk Factors, Classification, Symptoms, Diagnosis, Management, Hematometra, Adenomyosis)</li> <li>Pelvic Mass – Ovary (Cystic Ovarian Masses</li> <li>Pathologic Appearance, Role of Hormones, Risk Factors, Classification, Symptoms, Diagnosis, Management, Torsion of Adnexal Masses)</li> <li>Paraovarian Mass – (Paraovarian and Paratubal Cysts, Hydrosalpinx, Tubo-Ovarian Abscess - Symptoms, Diagnosis, Management)</li> <li>Pelvic Organ Prolapse (Risk Factors, Classification, Symptoms, Diagnosis, POP-Q Quantification, Management)</li> </ul>	

# LECTURE SUBJECT 11 (ELEVENTH WEEK):

## Preinvasive lesions of the lower genital tract

# LECTURE SUBJECT 12 (TWELFTH WEEK):

# Endometrial hyperplasia, endometrial cancer, uterine sarcoma

Lectures 3 classes	Practice 3 classes
<ul> <li>Endometrial Hyperplasia (Risk Factors, Classification, Diagnosis, Treatment)</li> <li>Endometrial Cancer (Incidence, Pathophysiology, Epidemiology and Risk Factors, Histologic Types, Staging and Classification, Symptoms, Diagnosis, Prognosis and Prognostic Factors, Treatment)</li> <li>Uterine Sarcoma (Incidence, Epidemiology and Risk Factors, Pathogenesis, Epidemiology and Risk Factors, Histologic Types, Symptoms, Diagnosis, Prognosis and Prognostic Factors, Treatment)</li> </ul>	

Ovarian cancer	
Lectures 3 classes	Practice 3 classes
Epithelial Ovarian Cancer (Incidence,	

## LECTURE SUBJECT 13 (THIRTEENTH WEEK):

Epidemiology and Risk Factors, Pathogenesis, Epidemiology and Risk Factors, Histologic Grade, Histologic Type, Symptoms, Diagnosis -Genetic Testing, Prognosis and Prognostic Factors, Treatment)

- Ovarian Germ Cell and Sex Cord–Stromal Tumors (Incidence, Epidemiology and Risk Factors, Pathogenesis, Epidemiology and Risk Factors, Classification, Symptoms, Diagnosis, Prognosis and Prognostic Factors, Treatment)

### LECTURE SUBJECT 14 (FOURTEENTH WEEK):

#### Principles of chemotherapy and radiation therapy, surgical procedure in gynecology

Lectures 3 classes	Practice 3 classes
Principles of Chemotherapy and Radiation	
Therapy	
- Surgical Procedure in Gynecology (MIC,	
Laparoscopy, Hysteroscopy, Conisatio,	
Reconstructive Procedures, Laparotomy,	
Salpingectomy, Ovariectomy, Adnexectomy,	
Myomectomy, Hysterectomy, Radical	
Hysterectomy) – Indications, Techniques, Types	
and Principals	

### LECTURE SUBJECT15 (FIFTHTEENTH WEEK):

Breast disease	
Lectures 3 classes	Practice 3 classes

**Breast Disease** (Ductal System, Lymphatic Drainage, Development and Physiology, Evaluation of a Breast Lump, Diagnostic Imaging, Breast Infections, Benign Proliferative Breast Disease, Breast Cancer

# Second semester: obstetrics

#### LECTURE SUBJECT 1( FIRST WEEK):

Implantation, embryogenesis and placental development	
Lectures 3 classes	Practice 3 classes
<b>Implantation, Embryogenesis and Placental</b> <b>Development</b> (The Ovarian–Endometrial Cycle, The Decidua, Fertilization and Implantation, The Blastocyst, Embryonic Development after	

Implantation, Placental Growth and Maturation, Fetal and Maternal Circulation, Placental Hormones, Diagnosis of Pregnancy)

- Fetal Growth and Development (Morphological Growth, Ovum, Zygote, and Blastocyst, The Placenta and Fetal Growth, Placental Transfer, Fetal Nutrition, Amnionic Fluid, Umbilical Cord and Membranes)

## LECTURE SUBJECT 2 (SECOND WEEK):

## Maternal Physiology. Chromosomal Abnormalities, Prenatal Diagnoses

Lectures 3 classes	Practice 3 classes
- Maternal Physiology (Reproductive Tract,	
Metabolic Changes, Hematological Changes,	
Cardiovascular System, Respiratory Tract,	
Urinary System, Endocrine System)	
Chromosomal Abnormalities (Teratology,	
Genetic and Physiological Mechanisms of	
Teratogenicity, Abnormalities of Chromosome	
Number, Abnormalities of Chromosome	
Structure, Modes of Inheritance, Genetic Tests)	
- Prenatal Diagnosis (Prenatal Diagnosis of	
Neural-Tube Defects, Prenatal Diagnosis of	
Down Syndrome and Other Aneuploidies,	
Sonographic Screening for Aneuploidy, Soft and	
Hard Signs, Fetuses at Increased Risk for	
Genetic Disorders, Diagnostic Techniques -	
CVS, AC, CC, NYPT), Twin-Twin Transfusion	
Syndrome)	
- , ,	

#### LECTURE SUBJECT 3 (THIRD WEEK):

Multifetal Gestation, Fetal Growth Disorders, Disorders of Amnionic Fluid Volume
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Lectures 3 classes	Practice 3 classes
- Multifetal Gestation (Etiology of Multifetal Gestations, Diagnosis of Multiple Fetuses, Sonographic Evaluation, Maternal Adaptation to Multifetal Pregnancy, Pregnancy Outcome, Unique Complications, Twin-Twin Transfusion Syndrome, Discordant Twins, Twin Demise, Antepartum Management of Twin Pregnancy, Preterm Labor Prediction, Labor and Delivery, Triplet or Higher- Order Gestation)	
Fotal Crowth Disordary (Normal Fotal	

- Fetal Growth Disorders (Normal Fetal

Growth, Fetal-Growth Restriction, Macrosomia)

- Disorders of Amnionic Fluid Volume (Normal Amnionic Fluid Volume, Hydramnios, Oligohydramnios)

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#### LECTURE SUBJECT 4 (FORTH WEEK): Antepartum Assessment, Parturition

Lectures 3 classes	Practice 3 classes
- Antepartum Assessment (Fetal Movements, Fetal Breathing, Fetal Monitoring, Contraction Stress Testing, Nonstress Tests, Biophysical Profile, Amnionic Fluid Volume, Current Antenatal Testing Recommendations, Sonography in Obstetrics, NMR)	
- <b>Parturition</b> (Phases of Parturition, Physiological and Biochemical Processes Regulating Parturition)	

### LECTURE SUBJECT 5 (FIFTH WEEK):

#### Normal labor and delivery, Labor induction Lectures 3 classes Practice 3 classes Normal Labor and Delivery (Mechanisms of Leopold Maneuvers, Labor, Vaginal Examination, Mechanisms of Labor with Occiput Anterior Presentation, Characteristics of Normal Labor, Management of Normal Labor and Delivery, Spontaneous Delivery, Delivery of the Shoulders, Delivery of the Placenta, Episiotomy) Labor Induction (Bishop Scoring, Pharmacological Techniques, Mechanical Techniques, Membrane Stripping for Labor Induction, Labor Induction and Augmentation with Oxytocin, Amniotomy)

# Abnormal Labor, Breech Presentation and Delivery

	2
Lectures 3 classes	Practice 3 classes
- Abnormal Labor (Overview of Dystocia, Abnormalities of the Expulsive Forces, Precipitous Labor and Delivery, Fetopelvic Disproportion, Brow Presentation, Persistent Occiput Transverse Position, Persistent Occiput Posterior Position, Shoulder Dystocia)	
- Breech Presentation and Delivery (Associated Factors, Diagnosis, Complications, Techniques for Breech Delivery, Version)	

# LECTURE SUBJECT 7 (SEVENTH WEEK):

# Preterm birth, Postterm pregnancy

Lectures 3 classes	Practice 3 classes
<ul> <li>- Preterm Birth (Mortality Rates of Preterm Infants, Morbidity in Preterm Infants, Mortality and Morbidity at the Lower and Upper Extremes of Prematurity, Reasons for Preterm Delivery, Antecedents and Contributing Factors, Diagnosis, Prevention of Preterm Birth, PPROM, Management of Preterm Rupture of Membranes and Preterm Labor, Preterm Labor with Intact Membranes)</li> <li>Postterm Pregnancy (Perinatal Mortality, Pathophysiology, Complications, Management)</li> </ul>	

# LECTURE SUBJECT 8 ( EIGHT WEEK):

Practice 3 classes	

Morbidity from Forceps Operations, Indications and Prerequisites for Vacuum Delivery, Comparison of Vacuum Extraction with Forceps)

#### LECTURE SUBJECT 9 (NINTH WEEK):

<b>Obstetrical Hemorrhage, Placental abruption</b>		
Lectures 3 classes	Practice 3 classes	

- **Obstetrical Hemorrhage** (Overview, Implications, and Classification, Antepartum and Postpartum Hemorrhage, Hemostasis at the Placental Site, Clinical Characteristics)

- **Placental Abruption** (Significance and Frequency, Etiology and Associated Factors, Pathology, Clinical Diagnosis, Management)

- Placenta Previa (Incidence, Associated Factors, Clinical Findings, Diagnosis, Management of Placenta Previa)

- Other Obstetrical Hemorrhage (Uterine Atony, Placenta Accreta, Increta, and Percreta, Inversion of the Uterus, Genital Tract Lacerations, Puerperal Hematomas, Rupture of the Uterus, Hypovolemic Shock)

# LECTURE SUBJECT 10 (TENTH WEEK):

### Cardiovascular disease in pregnancy, pregnancy htpertension

Lectures 3 classes	Practice 3 classes
- Cardiovascular Disease in Pregnancy (Diagnosis of Heart Disease, Clinical Classification of Heart Disease, Valvular Heart Disease, Congenital Heart Disease, Pulmonary Hypertension, Diseases of the Aorta, Ischemic Heart Disease, General Management)	
- <b>Pregnancy Hypertension</b> (Terminology and Classification, Diagnosis, Incidence and Risk Factors, Etiopathogenesis, Pathophysiology, Prediction and Prevention, Management, Delivery)	

### LECTURE SUBJECT 11 (EVENTH WEEK):

Lectures 3 classes	Practice 3 classes
- Thyroid and Other Endocrine Disorders in	
<b>Pregnancy</b> (Autoimmunity and Thyroid	
Disease, Hyperthyroidism, Thyroid Storm and	
Heart Failure, Hypothyroidism,	
Pheochromocytoma, Cushing Syndrome,	
Prolactinomas, Fetal and Neonatal Effects)	
- Diabetes in Pregnancy (Terminology and Classification, Diagnosis, Incidence and Risk Factors, Etiopathogenesis, Pathophysiology, Prediction and Prevention, Management, Delivery)	

# LECTURE SUBJECT 12 ( TWELFTH WEEK ):

## Hematological and thromboembolic disorders in pregnancy

Lectures 3 classes	Practice 3 classes
- Hematological Disorders in Pregnancy (Anemias, Hemoglobinopathies, Platelet Disorders - Classification, Pathophysiology, Clinical Findings, Diagnosis, Management)	
- Thromboembolic Disorders in Pregnancy (Thrombophilias, Deep-Venous Thrombosis, Pulmonary Embolism - Classification, Pathophysiology, Clinical Findings, Diagnosis, Thromboprophylaxis, Management)	

# LECTURE SUBJECT 13 (THIRTEENTH WEEK):

# Pulmonary, renal and urinary tract and gastrointestinal disorders in Pregnancy

Lectures 3 classes
Pulmonary Disorders in Pregnancy (Asthma, Pneumonia, Tuberculosis - Classification Botherphysiology Clinical
Classification, Pathophysiology, Clinical Findings, Diagnosis, Management)
- Renal and Urinary Tract Disorders in Pregnancy (Urinary Tract Infections, Nephrolithiasis, Chronic Renal Disease, Acute Renal Failure - Classification, Pathophysiology,
<ul> <li>Clinical Findings, Diagnosis, Management)</li> <li>Gastrointestinal Disorders in Pregnancy (Hyperemesis gravidarum, Helicobacter pylori</li> </ul>

Infection, Disorders of the Small Bowel and Colon, Appendicitis, Hepatic Disorders -Classification, Pathophysiology, Clinical Findings, Diagnosis, Management)

### LECTURE SUBJECT 14 ( FOURTEENTH WEEK ): Infectous and neoplastic diseases in Pregnancy

Infectous and neoplastic diseases in Pregnancy		
Lectures 3 classes	Practice 3 classes	
<ul> <li>Infectious Diseases in Pregnancy (Viral Infections - Varicella-Zoster Virus, Influenza, Rubella, Parvovirus, CMV, EBV, Bacterial Infections - Group A Streptococcus, GBS, MRSA, Toxoplasmosis - Classification, Pathophysiology, Clinical Findings, Diagnosis, Management, Vaccination)</li> <li>Neoplastic Diseases in Pregnancy (Principles of Cancer Therapy during Pregnancy, Breast</li> </ul>		
Carcinoma, Lymphoid Cell Malignancies, Malignant Melanoma, Reproductive Tract Neoplasia, Other Tumors)		
- Other Diseases in Pregnancy (Neurological and Psychiatric Disorders – Epilepsy, Ischemic Stroke, Multiple Sclerosis, Schizophrenia, Dermatological Disorders – Pigmentation, Striae Gravidarum, Herpes Gestationis)		

# LECTURE SUBJECT 15 (FIFTEENTH WEEK ):

The Tuerperfully, the newborn man		
Lectures 3 classes	Practice 3 classes	
- The Puerperium (Anatomical, Physiological, and Clinical Aspects, Breasts and Lactation, Care of the Mother during the Puerperium, Puerperal Infection - Uterine Infection, Infections of the Perineum, Vagina, and Cervix, Toxic Shock Syndrome, Mastistis)		
- The Newborn Infant (Management of Delivery, Preventive Care, Routine Newborn Care, Diseases Common in the Preterm Fetus and Newborn)		

# The Puerperium, the newborn infant

# WEEKLY COURSE SCHEDULE

COURSE	MONDAY
GYNECOLOGY AND OBSTETRICS (3+3)	LECTURES 08:00-10:15 (Hall at the Pediatric Clinic) PRACTICE 10:30-13:45 (Gynecology and obstetrics Clinic UCCK)

		Class schedule	
Semester	week	Lecture subject	professor
1st	Ι	Anatomy	Prof dr Petar Arsenijevic
1 <sup>st</sup>	II		Prof. dr Aleksandra Dimitrijevic
		Reproductive Endocrinology,	
		Clinical Hypothalamic – Pituitary -	
		Adrenal Axis Abnormalities,	
		Pediatric and Geriatric Gynecology	
1 <sup>st</sup>	III	Normal menstrual cycle, abnormal	Prof dr Marija Sorak
		uterine bleeding	
1 <sup>st</sup>	IV	Amenorrhea, polycystic ovarian	Prof. dr Aleksandra Dimitrijevic
		syndrome and hyperandrogenism,	Prof. dr Marija Sorak
		premenstrual syndrome and	
		dismenorea, pelvic pain	
1 <sup>st</sup>	V	Medilac history and physical	Prof. dr Petar Arsenijevic
		examination, Techniques Used for	
		Imaging in Gynecology, Cancer	
		Screening, Invasive diagnostic	
		procedures	
1 <sup>st</sup>	VI	Gynecological infection, pelvic	Prof. dr Aleksandra Dimitrijevic
		inflammatory disease, sexually	
		transmitted diseases	
1 <sup>st</sup>	VII	Endometriosis, ectopic pregnancy,	Prof. dr Marija Sorak
		gestational trophoblastic disease	
1 <sup>st</sup>	VIII	Contraception, first trimester	Prof. dr Marija Sorak
		abortion	Prof. dr Aleksandra Dimitrijevic
1 <sup>st</sup>	IX	Evaluation of the infertile couple,	Prof. dr Marija Sorak
		treatment of infertile couple	
1 <sup>st</sup>	Х	Pelvis mass and pelvic organ	Prof. dr Petar Arsenijevic
		prolapse	
1 <sup>st</sup>	XI	Preinvasive lesions of the lower	Prof. dr Petar Arsenijevic
		genital tract	Prof. dr Aleksandra Dimitrijevic
1 <sup>st</sup>	XII	Endometrial hyperplasia,	Prof. dr Aleksandra Dimitrijevic

		endometrial cancer, uterine	
		sarcoma	
1 <sup>st</sup>	XIII	Ovarian cancer	Prof. dr Marija Sorak
1st	XIV	Principles of chemotherapy and radiation therapy, surgical procedure in gynecology	Prof. dr Marija Sorak
1 <sup>st</sup>	XV	Breast disease	Prof. dr Petar Arsenijevic
2 <sup>nd</sup>	Ι	Implantation, embryogenesis and placental development	
2 <sup>nd</sup>	II	Maternal Physiology. Chromosomal Abnormalities, Prenatal Diagnoses	
2 <sup>nd</sup>	III	Multifetal Gestation, Fetal Growth Disorders, Disorders of Amnionic Fluid Volume	
2 <sup>nd</sup>	IV	Antepartum Assessment, Parturition	
2 <sup>nd</sup>	V	Normal labor and delivery, Labor induction	
2 <sup>nd</sup>	VI	Abnormal Labor, Breech Presentation and Delivery	
2 <sup>nd</sup>	VII	Preterm birth, Postterm pregnancy	
2 <sup>nd</sup>	VIII	Cesarean Delivery, Forceps Delivery and Vacuum Extraction	
2 <sup>nd</sup>	IX	Obstetrical Hemorrhage, Placental abruption	
2 <sup>nd</sup>	Х	Cardiovascular disease in pregnancy, pregnancy htpertension	
2 <sup>nd</sup>	XI	Diabetes in Pregnancy, thiroid and other endocrine disorders in pregnancy	
2 <sup>nd</sup>	XII	Hematological and thromboembolic	

		disorders in pregnancy	
2 <sup>nd</sup>	XIII	Pulmonary, renal and urinary tract	
		and gastrointestinal disorders in	
		Pregnancy	
2 <sup>nd</sup>	XIV	Infectous and neoplastic diseases in	
		Pregnancy	
2 <sup>nd</sup>	XV	The Puerperium, the newborn	
		infant	

Semester	week	Practice subject	professor
1st	Ι	Anatomy	dr Nikola Jovic
			dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	II		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Reproductive Endocrinology,	dr Dejana Rakic
		Clinical Hypothalamic – Pituitary -	dr Aleksandar Nikolov
		Adrenal Axis Abnormalities,	dr Srdjan Mujkovic
		Pediatric and Geriatric Gynecology	dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	III		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Normal menstrual cycle, abnormal	dr Dejana Rakic
		uterine bleeding	dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic

Class schedule

			dr Andjela Peric
1 <sup>st</sup>	IV		dr Nikola Jovic
		Amonomia nolycyctic overion	dr Marija Bicanin Ilic
		Amenorrhea, polycystic ovarian	dr Dejana Rakic
		syndrome and hyperandrogenism,	dr Aleksandar Nikolov
		premenstrual syndrome and	dr Srdjan Mujkovic
		dismenorea, pelvic pain	dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	V		dr Nikola Jovic
		Medilac history and physical	dr Marija Bicanin Ilic
		examination, Techniques Used for	dr Dejana Rakic
		Imaging in Gynecology, Cancer	dr Aleksandar Nikolov
		Screening, Invasive diagnostic	dr Srdjan Mujkovic
		procedures	dr Aleksandra Mitrovic
		-	dr Andjela Peric
1 <sup>st</sup>	VI		dr dr Nikola Jovic
			dr Marija Bicanin Ilic
		Gynecological infection, pelvic	dr Dejana Rakic
		inflammatory disease, sexually	dr Aleksandar Nikolov
		transmitted diseases	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$1^{st}$	VII		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Endometriosis, ectopic pregnancy, gestational trophoblastic disease	dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	VIII		dr Nikola Jovic
		Contraception, first trimester abortion	dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic

			dr Aleksandra Mitrovic dr Andjela Peric
1 <sup>st</sup>	IX	Evaluation of the infertile couple,	dr Nikola Jovic
1	17	treatment of infertile couple	dr Marija Bicanin Ilic
		treatment of mertile couple	dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic dr Aleksandra Mitrovic
1 St	¥7.		dr Andjela Peric
1 <sup>st</sup>	Х	Pelvis mass and pelvic organ	dr Nikola Jovic
		prolapse	dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$1^{st}$	XI		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Preinvasive lesions of the lower	dr Dejana Rakic
		genital tract	dr Aleksandar Nikolov
		genital tract	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	XII	Endometrial hyperplasia,	dr Nikola Jovic
		endometrial cancer, uterine	dr Marija Bicanin Ilic
		sarcoma	dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	XIII	Ovarian cancer	dr Nikola Jovic
			dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov

			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1st	XIV	Principles of chemotherapy and	dr Nikola Jovic
		radiation therapy, surgical	dr Marija Bicanin Ilic
		procedure in gynecology	dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
1 <sup>st</sup>	XV		dr Nikola Jovic
			dr Marija Bicanin Ilic
			dr Dejana Rakic
		Breast disease	dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	I		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Implantation, embryogenesis and	dr Dejana Rakic
		placental development	dr Aleksandar Nikolov
		placental development	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	II		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Maternal Physiology. Chromosomal	dr Dejana Rakic
		Abnormalities, Prenatal Diagnoses	dr Aleksandar Nikolov
		Abilor manties, i renatar Diagnoses	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$2^{nd}$	III	Multifetal Gestation, Fetal Growth	dr Nikola Jovic
		<b>Disorders, Disorders of Amnionic</b>	dr Marija Bicanin Ilic
		Fluid Volume	dr Dejana Rakic

			dr Aleksandar Nikolov dr Srdjan Mujkovic dr Aleksandra Mitrovic dr Andjela Peric`
2 <sup>nd</sup>	IV	Antepartum Assessment,	dr Nikola Jovic
		Parturition	dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	V		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Normal labor and delivery, Labor	dr Dejana Rakic
		induction	dr Aleksandar Nikolov
		induction	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$2^{nd}$	VI		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Abnormal Labor, Breech	dr Dejana Rakic
		Presentation and Delivery	dr Aleksandar Nikolov
		Tresentation and Derivery	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	VII		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Preterm birth, Postterm pregnancy	dr Dejana Rakic
		recerm on in, rosterin pregnancy	dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	VIII	<b>Cesarean Delivery, Forceps</b>	dr Nikola Jovic
		Delivery and Vacuum Extraction	dr Marija Bicanin Ilic

			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	IX		dr Nikola Jovic
			dr Marija Bicanin Ilic
			dr Dejana Rakic
		Obstetrical Hemorrhage, Placental	dr Aleksandar Nikolov
		abruption	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	X		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Cardiovascular disease in	dr Dejana Rakic
			dr Aleksandar Nikolov
		pregnancy, pregnancy htpertension	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$2^{nd}$	XI		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Diabetes in Pregnancy, thiroid and	dr Dejana Rakic
		other endocrine disorders in	dr Aleksandar Nikolov
		pregnancy	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	XII		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Hematological and thromboembolic	dr Dejana Rakic
		disorders in pregnancy	dr Aleksandar Nikolov
		uisor ucrs in pregnancy	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	XIII	Pulmonary, renal and urinary tract	dr Nikola Jovic

		and gastrointestinal disorders in	dr Marija Bicanin Ilic
		Pregnancy	dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
2 <sup>nd</sup>	XIV		dr Nikola Jovic
			dr Marija Bicanin Ilic
		Infactory and peoplectic discoses in	dr Dejana Rakic
	Infectous and neoplastic diseases in	dr Aleksandar Nikolov	
		Pregnancy	dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric
$2^{nd}$	XV		dr Nikola Jovic
		The Puerperium, the newborn infant	dr Marija Bicanin Ilic
			dr Dejana Rakic
			dr Aleksandar Nikolov
			dr Srdjan Mujkovic
			dr Aleksandra Mitrovic
			dr Andjela Peric

I group (embryology, anatomy, endocrinology, infertility, family planning, and diagnostics procedures in gynecology)

- 1. Embryological development of the female genital tract
- 2. Developmental disorders of the female genital tract
- 3. Anatomy of external and internal parts of the female genital tract
- 4. Hypothalamic pituitary axis and it's dysfunction
- 5. Ovarian steroid hormones

6. Non- invasive diagnostics procedures in gynecology (assessing ovarian function, ultrasounds, colposcopy,

PAP smear, radiological procedures)

7. Invasive diagnostics procedures in gynecology (biopsy, explorative curettage, HSG, hysterometry, culdocentesis )

- 8. Women's life stages (infancy, puberty, reproductive age)
- 9. Women's life stages (climacteric period, menopause, senium)
- 10. Physiology of the menstrual cycle
- 11. Disorders of rhythm, intensity and duration of the menstrual cycle
- 12. Amenorrhea
- 13. Polycystic ovary syndrome and hirsutism
- 14. Dysmenorrhea, premenstrual syndrome and chronic pelvic pain syndrome
- 15. Male and female infertility (diagnostics and treatment)
- 16. Assisted reproductive techniques
- 17. Contraception and family planning
- 18. Intentional termination in early and in late stages of pregnancy

II group (inflammatory and tumor processes in gynecology)

- 1. Inflammatory processes of the vagina, cervix and Bartholin gland
- 2. Bacterial vaginosis
- 3. Inflammatory processes of the uterus, ovaries and the fallopian tubes
- 4. Genital tuberculosis
- 5. Endometriosis
- 6. Diffused peritonitis from genital origins
- 7. Pelviperitonitis
- 8. Sexually transmitted diseases
- 9. Benign and malignant tumors of vulva and vagina, and their precancerous lesions
- 10. Benign tumors of the cervix and it's precancerous lesions
- 11. Malignant tumors of the cervix and HPV infection
- 12. Benign tumors of the uterus
- 13. Malignant tumors of the uterus
- 14. Benign and malignant tumors of the ovaries and the fallopian tubes
- 15. Gestational trophoblastic disease
- 16. Static disorders in the female reproductive tract
- 17. Diseases of the breast

III group (early and late pregnancy, pathological conditions in pregnancy)

- 1. Gametogenesis, fertilization and implantation
- 2. Embrional and fetal stage of development
- 3. Congenital fetal anomalies
- 4. Development, morphology and function of the placenta, umbilical cord and amniotic fluid
- 5. Diagnosis of early pregnancy and prenatal assessments
- 6. Ectopic pregnancy
- 7. Maternal adaptations that occur in pregnancy
- 8. Methods of prenatal diagnostics (double test, CVS, amniocentesis, cordocentesis )
- 9. Spontaneous abortion and imminent abortion
- 10. Early gestosis
- 11. Hypertensive syndrome in pregnancy, preeclampsia, eclampsia
- 12. Endocrine disorders in pregnancy gestational diabetes and Diabetes mellitus type I

- 13. Cardiovascular and hematological diseases in pregnancy
- 14. Immunological aspects of pregnancy RH incompatibility
- 15. Surgical diseases in pregnancy
- 16. Diseases of the urinary tract during pregnancy
- 17. Infections in pregnancy
- 18. Placenta previa
- 19. Early shedding of the normally implanted placenta- abruptio placentae
- 20. Intrauterine fetal growth restriction
- 21.Pathology of amniotic fluid and umbilical cord

### IV group

- 1. Signs, causes of the beginning and factors of labour
- 2. The fetus as a object of birth
- 3. The first and the second stage of labour
- 4. The third and the fourth stage of labour
- 5. Normal and abnormal uterine activity dystocia
- 6. Rotational anomalies of the fetal head and asynclitism
- 7. Fetal head deflection anomalies
- 8. Pelvic presentation and manual assistance during pelvic delivery
- 9. Multiple pregnancy and labour
- 10. Premature and preterm rupture of amniotic membranes
- 11. Preterm pregnancy and labour
- 12. Postterm pregnancy and labour
- 13. Hemorrhagic shock in obstetrics uterine atony
- 14. External examination of a pregnant woman
- 15. Internal examination of a pregnant woman- Bishop skor
- 16. Intrapartum fetal monitoring CTG, PH measurement, importance of amniotic fluid
- 17. Rupture of the uterus and prolapse of the umbilical cord
- 18. Physiological puerperium
- 19. Pathological puerperium

### V group

- 1. Operative procedures on the uterus (hysterectomy, myomectomy)
- 2. Operative procedures on adnexa (adnexectomy, sterilization)
- 3. Operative procedures on the cervix (conization, cerclage)
- 4. Laparascopic procedures in gynecology
- 5. Caesarean section
- 6. Vacuum extraction of fetus
- 7. Forceps delivery
- 8. Episiotomy and injury of soft birth canal
- 9. Anesthesia and analgesia in labour
- 10. Use of medicines and vactination during pregnancy
- 11. Instrumental and manual revision of the uterine cavity
- 12. Embryotomies
- 13. Newborn Apgar score
- 14. Characteristics of preterm and postterm newborns
- 15. Characteristics of newborns from high-risk pregnancies
- 16. Resuscitation of an asphyxiated newborn
- 17. Forensic-medical problems in ginekology and obstetrics
- 18. Genetic counseling